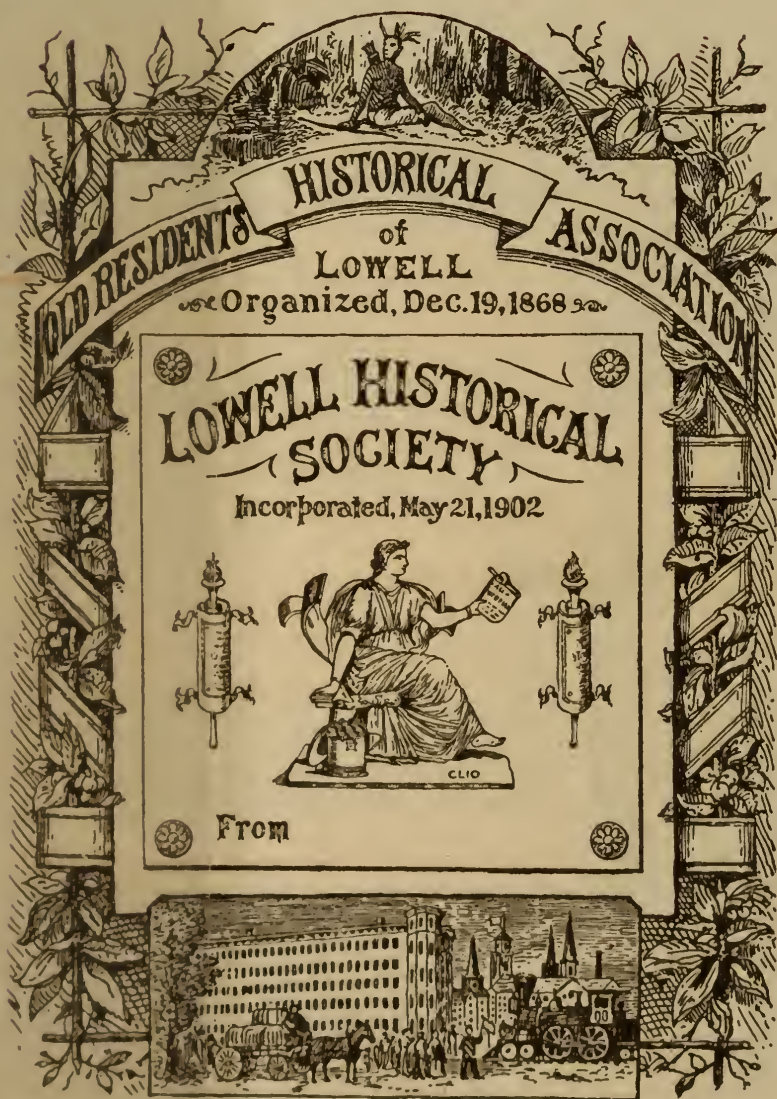


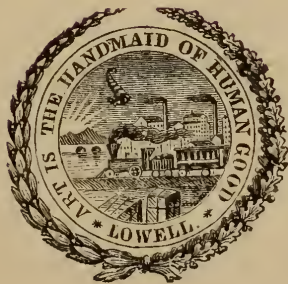


City of Lowell
to
Old Residents Historical Ass.

LIBRARY OF THE



CITY DOCUMENTS
OF THE
CITY OF LOWELL, MASS.
FOR THE
YEAR 1886-87.



LOWELL, MASS.,
DAILY NEWS PRESS: 76 MERRIMACK STREET.
CITY PRINTERS.
1887.

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER VIII. — CITY DOCUMENTS.

SECTION 5. All City Documents, except the rules and regulations for the government of the police and fire departments, shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECT. 6. All City Documents shall annually be bound together in one volume, under the direction of the City Clerk; and three or more copies shall be deposited in the City Library, and one copy in the library of the Middlesex Mechanics' Association. One copy shall be sent to each City of the Commonwealth, to the library of Harvard College, the Public Library of Boston, the State Library, and the Smithsonian Institution at Washington, and the Old Residents' Historical Association of Lowell.

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2. Municipal Register, containing Rules and Orders of the City Council, etc., with a list of the Government and Officers of the City of Lowell, for 1887.
3. Sixty-first Annual Report of the School Committee of the City of Lowell, together with the Twenty-second Annual Report of the Superintendent of Public Schools, 1886.
4. The Auditor's Fifty-first Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, for the Financial Year ending December 31, 1886.
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THE INAUGURAL ADDRESS

—OF—

HON. JAMES C. ABBOTT,

MAYOR OF THE CITY OF LOWELL,

—TO THE—

TWO BRANCHES OF THE CITY GOVERNMENT,

JANUARY 4, 1887.



LOWELL, MASS.:

CAMPBELL & HANSCOM, PRINTERS,

1887.

CITY OF LOWELL.

IN COMMON COUNCIL, January 3, 1887.

Order requesting a copy of the Mayor's address for publication.

ORDERED, if the Board of Aldermen concur, That His Honor the Mayor be requested to furnish a copy of his Inaugural Address for publication.

IN COMMON COUNCIL, January 17, 1887.

Read and adopted; sent up for concurrence.

DAVID CHASE, *Clerk.*

IN BOARD OF ALDERMEN, January 17, 1887.

Read and adopted in concurrence.

DAVID W. O'BRIEN, *City Clerk.*

ADDRESS.

GENTLEMEN OF THE CITY COUNCIL:—

By the partiality of the citizens of Lowell, I am called upon, a second time, to make suggestions to the City Council concerning the administration of municipal affairs.

There has been a marked change for the better in the industrial concerns of our people; our population has increased, a greater demand for our manufacturing products has sprung up. It is important that we should realize how necessary to our prosperity it may become, that our city government should be prudent and judicious.

I believe to-day that nothing needs to be urged more earnestly upon members of the City Council than that they expend the hundreds of thousands of dollars that will come into their hands, economically. It devolves upon this City Government, and upon each individual member, to forward the interests of the city in such a manner that, among cities of similar size and means, Lowell may be maintained in the van of municipal progress.

There are many and varied expenditures to be made; our streets must be kept in a safe condition for travel, the sewers be kept in repair and extended, the fire department and the police service

adequately supported, our schools generously cared for, and all paid servants of the city sufficiently compensated. These and all other interests of the city should be managed with economy, and above all, in a non-partisan spirit.

FINANCIAL.

Cash in Treasury, Jan. 1, 1886.....	\$19,503.11
Amount received during the year 1886.....	1,687,275.87
	<hr/>
Making a total of.....	\$1,706,778.98
Amount paid from the Treasury during the year 1886,	1,686,356.34
	<hr/>
Cash in Treasury Dec. 31, 1886.....	\$20,422.64
	<hr/>

CITY DEBT.

Amount of the ordinary city debt,	
Jan. 1, 1886.....	\$1,378,250.00
Amount paid during the year 1886...	52,850.00
	<hr/>
Total ordinary city debt, Dec. 31, 1886,	\$1,325,400.00
Amount of the debt of the city on	
account of Water Works, Jan. 1,	
1886.....	\$1,890,000.00
Amount paid during the year 1886...	53,000.00
	<hr/>
Total debt of the city on account of	
Water Works, Dec. 31, 1886....	1,837,000.00
	<hr/>
Total debt of the city, Dec. 31, 1886..	\$3,162,400.00
	<hr/>
Ordinary city debt, Dec. 31, 1886.....	\$1,325,400.00
Amount of the several sinking funds	
for the payment of the same,	
Dec. 31, 1886.....	369,274.57
	<hr/>
Net ordinary city debt, Dec. 31, 1886	\$956,125.43
Debt of the city on account of Water	
Works, Dec. 31, 1886.....	\$1,837,000.00
Amount of the several sinking funds	
for the payment of the same,	
Dec, 31, 1886.....	517,994.42
	<hr/>
Net Debt of the city on account of	
Water Works, Dec. 31, 1886...	1,319,005.58
	<hr/>

Total net debt of the city, Dec. 31, 1886,.....	\$2,265,131.01
Net debt of the city, Dec. 31, 1885..	\$2,451,723.70
Net debt of the city, Dec. 31, 1886..	2,275,131.01
Decrease in net debt of the city during the year 1886.....	\$176,592.69

The foregoing statement prepared by the City Auditor shows that the city debt has been reduced during the year one hundred and seventy-six thousand five hundred ninety-two dollars and sixty-nine cents (\$176,592.69). There was borrowed from the Commonwealth in 1876, on account of Water Works, fifty thousand dollars (\$50,000), to be paid in ten years.

Payment for this amount was provided for by sinking fund. This fund was closed in June last, and forty-four thousand five hundred and nine dollars and thirty-nine cents (\$44,509.39) was transferred to the city for the payment of the city's note, due June 15, 1886. There has been paid into the several sinking funds seventy-five thousand nine hundred dollars (\$75,900), and in installments on various notes sixty-one thousand three hundred and forty dollars and sixty-one cents (\$61,340.61). The earnings of the sinking funds for the year amount to thirty-nine thousand three hundred and fifty-two dollars and eight cents (\$39,352.08), making a total of one hundred and seventy-six thousand five

hundred ninety-two dollars and sixty-nine cents (\$176,592.69).

As there has been no permanent loan made, this amount of one hundred and seventy-six thousand five hundred ninety-two dollars and sixty-nine cents (\$176,592.69) is the true reduction made in the city debt during the year.

The temporary loans made from time to time for current expenses of the city have all been paid from the tax levy of 1886. These loans have been made at a very low rate of interest; one hundred and three thousand dollars at the rate of two and seven-eighths per cent. per annum; two hundred thousand dollars at the rate of two and seven-eighths per cent., and one hundred thousand dollars at the rate of two and fifteen-sixteenths per cent. per annum. In March the several national banks in the city were asked by the Committee on Finance for proposals for the city's deposit account. All proposals received were examined by the committee and the account was awarded to the First National Bank, at the rate of three and one-fourth per cent. per annum, the highest rate of interest offered by any bank.

SCHOOLS.

The time has not yet come when our public schools can be neglected with impunity. There is no other of our free institutions about which the

people are so sensitive. In the future, as in the past, our schools should be generously supported.

For years there has been a dispute as to what repairs should be charged to the appropriation under the control of the School Committee, and what should be paid from the appropriation of the Committee on Lands and Buildings.

During the past year the School Committee requested the City Council to make sundry improvements in certain school-houses. Some of the improvements urgently required were of a sanitary character. No issue was publicly made between the two boards. Nothing, however, was done because the sub-committee of the City Council, to whom the whole matter was referred, thought the expense should be incurred by the School Committee and paid from their appropriation. It would be well that there should be an ordinance to define the responsibility of each committee, so far as it could be done under the charter and the laws of the Commonwealth.

The whole number of pupils enrolled during the year 1886 was 9,473. The average number belonging was 6,947, and the average daily attendance was 6,309.

The total expenditure, including the evening schools, was \$168,888.18; receipts, \$721.11; net expenditure, \$168,167.07.

EVENING SCHOOLS.

There has been a larger attendance upon the evening schools during the last year than ever before. The good results of the work of the Supervisor are apparent in the improved deportment of the pupils, and in the greater uniformity and efficiency of methods employed.

There is no diminution in the interest manifested in the evening drawing school. The performances of all the classes are admitted to be eminently satisfactory by competent critics in the several departments. It seems especially fitting, in a manufacturing city like Lowell, that the department of industrial and mechanical drawing should continue to be fostered.

SCHOOL-HOUSES.

A new primary school-house is much needed in that part of Centralville located northerly from Aiken Street Bridge.

An addition to the Highland school-house seems to be required, as well as annexes or separate buildings for the accommodation of the over-crowded schools on Dover and School streets.

The cost of new school-rooms and the new Weed street school house was \$18,315.29. There was expended for repairs \$9,858.25; janitors, \$14,112.45; net expenditure, \$42,285.99.

CITY LIBRARY.

As an important adjunct to our educational system, and an institution having a direct influence upon the prosperity of the public, the affairs of the City Library should receive careful consideration and broad and liberal legislation. In particular, it should be your aim to place on its board of directors men who are fitted by taste and education for such a position, who may be expected to manifest an intelligent zeal for its interests.

In accordance with a recommendation made last year, the ordinance relating to the library has been so modified that the election of librarian is placed in the hands of the library directors, and they have elected Mr. Charles H. Burbank, who was placed in the position by the City Council last year. The Superintendent of Schools has also been added to the board of directors, as an *ex-officio* member, and the two members elected annually by the City Council are to be chosen "at large," and not from the wards as heretofore. The most pressing need of the library is for more room, both for the accommodation of the public and the storage and care of books. There are upwards of eight thousand subscribers to the library, and the circulation of books during the year was nearly 120,000, over one thousand volumes being distributed in a single day; and the reading room is daily visited by several hundred persons, a large number of them being

habitual frequenters of it. To consider the erection of a library building by the city in the present state of the municipal finances, may be deemed unreasonable, but, unless private generosity shall in the meantime supply the want, the time is near when this question must be seriously confronted by the City Council.

The total expenditure for the year was \$15,290.38; the receipts were \$2,630.31; net expenditure, \$12,660.07.

LICENSE LAW.

There is an unmistakable sentiment in the community against a multiplication of licenses to the large number issued last year. There is a demand not only that there should be fewer licenses, but also that the character and record of applicants should be investigated and that the places where sales are to be made, with their appurtenances, should be scrutinized. Licenses should not be issued to women. Every effort should be made to rigorously enforce the law under which licenses are issued.

There was received for licenses \$70,606.67; from this there was paid to the Commonwealth \$17,651.67; leaving to the city treasury a net income of \$52,955.

POLICE.

The proper management of this department of our government is of the highest importance, and from personal knowledge and observation I am convinced that during the past year it has been conducted in an eminently satisfactory manner. Such a degree of harmony has been established among the members that all have worked together for the public interest, and the result has been a very efficient administration of the criminal law in our city. Many important cases have been investigated and brought to a successful end, and there is a feeling among our citizens that their persons and property receive ample protection, and the good order and welfare of our city are in the hands of a capable, vigilant and trustworthy police organization.

Three new day beats were added December 1, one including Ayer City, another, that portion of Ward Four west of Nichols street, and the third comprises lower Market, Prescott, Paige, Shattuck and intersecting streets, with the exception of Post Office square. At the Square one man is now detailed, the increasing business and traffic at that point rendering it necessary for an officer to give it all his attention. The two first-named beats were established in consequence of numerous complaints from those growing sections of our city.

The department now consists of seventy-one officers, rank and file; sixty-five regulars and six

supernumeraries. The total number of arrests for the year ending November 30, 1886, was 3,393, and the number of persons lodged at the station house, 3,313.

The total expenditure for the year was \$68,624.20; receipts, \$11,744.42; net expenditure, \$56,879.78.

PUBLIC BUILDINGS.

The public buildings are in good condition with the exception of the police station. It seems that some extensive repairs are needed there in order that business may be carried on in a proper manner. New floorings should be laid and urinals placed in the cells. It is also desirable that a drying room be provided for and an addition made to the number of cells.

The City Treasurer's office has been enlarged and entirely refitted, so that it is now perfectly adapted to meet the requirements of the future. I would repeat my suggestion of last year that the office of the Overseers of the Poor be removed to one of the stores in the government building.

The total expenditure of this department was \$10,625.18; receipts, \$3,641.73; net expenditure, \$6,983.45.

FIRE DEPARTMENT.

The apparatus in active use in the fire department at present consists of three steam fire engines,

four horse and two hand hose carriages, two hook and ladder trucks, one protective wagon, and one chemical engine, all in first-class condition. During the year additions have been made in the houses of Steamer 2, Branch street, Hose 5 on Fourth street, and Hose 7, Fletcher street.

A new brick house for the use of Hose 6 is now being erected on the corner of Central and North streets, and will be ready for occupancy about Feb. 1, 1887, the total cost of which will be about \$8,500. The number of hydrants now in use is 763, 11 having been added in the past year. Ninety alarms of fire have been given, entailing a loss of \$17,632.16. The amount of insurance on the property injured or destroyed amounted to \$107,807, and the amount of insurance paid \$17,542.16, making a net loss of \$90.

Our fire department is deserving of special commendation. We have been very fortunate in escaping serious conflagrations, owing mainly to our excellent system of water works and to the efficient and faithful manner in which this department has been managed.

The entire cost of this department during the year has been \$64,712.98; receipts, \$4,938.59; net expenditure, \$59,774.39.

LIGHTING DEPARTMENT.

The lighting department next calls our attention. This important branch of our city is constantly growing, as new streets are being laid out and the demand for light increases.

During the past year 117 new lights have been added, making a total of 1,285, consisting of 74 electric, 876 gas, and 335 kerosene, the latter being substituted for gasolene the past year.

The appropriation for 1886 was \$45,000 and the expenditure was \$44,282.82.

I would recommend that this department be not stinted, as light is requisite as a preventive of danger and crime.

COMMONS.

The work of cutting down the ledge at the southerly corner of the South common has been continued throughout the year and is nearly completed. Over 1,200 cubic yards of very hard granite rock have been removed. The elevated sidewalk extending along a considerable part of the Thorndike and Highland street sides of the common has been cut down to the street grade, thus getting rid of the steps at the corner of Thorndike and Highland streets.

The material removed from the ledge has been used to fill in the low ground near the pond. This filling might be continued by using material excavated

from sewers and other city work, until an easy slope is obtained from the present filling to the corner of Summer and South streets.

The wooden fence which formerly enclosed the South common is now entirely gone and that around the North common is so rotten and unsightly that it ought to be removed. As the people are allowed to walk on the grass at will a fence seems to be useless.

The amount expended on commons the past year has been \$8,777.44; receipts, \$540.67; net expenditure, \$8,236.77.

ROGERS FORT HILL PARK.

During the past year Messrs. Ethan A. Smith, Eli W. Hoyt, Freeman B. Shedd and Thomas R. Garity, trustees, have conveyed to the City of Lowell, Fort Hill, and the city has accepted the same upon the express trust that it should be kept and maintained as and for a public park for the use, recreation and enjoyment of the people of our city forever. This property was conveyed by the Misses Emily and Elizabeth Rogers to the gentlemen named, as trustees, and they were required, when they had suitably prepared the same for the purpose of a park, to transfer the title thereof to the city.

It is apparent to all that these gentlemen faithfully discharged their trust. Although the last City Council adopted suitable resolutions expressing its

own and our citizens' gratitude for this munificent gift, I feel that this occasion justifies, if it does not require, this public reference to the subject; and while I am aware that the historic spot prepared and used years ago as a fortification in times of war by a tribe of Indians, is the most enduring monument of the thoughtful generosity of the donors, I feel that I should supplement the action of the City Council by emphasizing our obligation to these public benefactors of our city.

In this connection it is proper that I should call your attention to the effort which was made last year to purchase some one hundred and eight acres of land lying on either side of the "Rogers Fort Hill Park," to be added thereto.

Few things contribute as much to the people's health as pure air, and the opportunity for this is afforded by large commons which may be used for the rest, recreation and enjoyment of the people.

It would be very desirable to enlarge the boundaries of our beautiful park, and it should be done if it can be accomplished at a reasonable cost. I commend this matter to your early consideration.

ROADS AND BRIDGES.

During the year considerable work has been done on streets laid out by previous city councils, which include Parker, Pine and Humphrey streets. I consider that too much care cannot be exercised

in the matter of laying out streets, and one city council ought not to lay out work for the next to do; or, which is often the case, the laying out is only a matter of record in the office of the City Clerk, and the streets remain ungraded until some improvement is petitioned for, when the cost of grading is generally increased and often the cause of damage. As soon as a street is accepted by the city it should be wrought to its proper width and grade. What I should consider the best policy to pursue, would be not to accept any street unless it has sufficient width so as not to require widening in the future, and is also properly graded. In all localities where the "common convenience and necessity" require that streets should be laid out which have not been properly constructed by the abutters, I would sincerely recommend that the "Betterment Act" be applied and enforced; for it is only just, where a small section of the city is to receive special benefits that it should be assessed for such improvements and not impose the cost on taxpayers who receive only a general benefit.

The expenditures this year have been largely increased by the laying of horse railroad tracks in several of the streets, which had to be regraded and macadamized. As there is no suitable roadway material to be found within the city, the problem of keeping the streets in good repair at the least expense becomes a difficult one. Paving should be

used in those thoroughfares where the traffic is heavy, but for other streets macadamizing is far superior, and, if thoroughly done, will last a long time and prove to be economical. The wooden paving in Bridge and Dutton streets has been replaced by granite. These portions were the last of that pavement which was laid twelve years ago. Branch street, between Coral and Loring streets, has been paved with granite. The amount of paving laid is about 5,987 square yards. During the year 19,133 lineal feet of edgestones have been set, 6,343 square yards of tar concrete sidewalks laid, and 4,883 square yards of concrete sidewalks top dressed. There has also been top dressed 3,754 square yards of concrete pavement in Pawtucket street.

The bridges are in good repair. Pawtucket bridge roadway has been relaid, and the top plank-ing of the roadway of Central bridge has also been repaired.

The entire amount expended during the year in this department is \$112,752.80, the receipts have been, \$18,181.57 making the net cost \$94,571.23.

The expenditures of this department are larger than any other in this municipality, excepting schools, and I desire to again impress upon the committee on streets that a very great responsibility rests upon them, and to exercise watchfulness and careful management.

SEWERS AND DRAINS.

As the suburban portions of our city are laid out into streets, new dwellings built and water pipes laid, then comes the request for sewers. The sewerage system can never be completed so long as the city continues to grow; therefore each year quite an appropriation will be necessary to meet the imperative demands for new sewers, so that the health of our citizens may be protected so far as it lies within the power of the city government. Most of the main sewers have been built, but probably there will be required this year one in Gorham street from Congress to Manchester street, which would give an opportunity to drain a large and thickly settled district lying on the westerly side of this street, where the wants of a system of sewerage have been felt for a considerable time, but cannot be obtained until this sewer is built.

A main sewer will be required to drain the territory lying west of Mammoth road and north of Woodward avenue in Pawtucketville, and another to drain the territory lying between Bridge and Hildreth streets, which is being rapidly built upon, and at present there are more than one hundred and fifty families without proper means for draining their premises.

As the cost of these main sewers will be considerable, I would earnestly recommend that a permanent loan be made to meet this large expenditure,

and thereby reduce the annual appropriation for ordinary sewer construction. This method would relieve the taxpayers to quite an extent from the burden of paying for sewers which are built as much for future requirements as they are for the present.

During the past year \$49,601.40 have been expended by this department. The receipts have been \$5,858.39, making the net expenditure \$43,743.01.

The amount of sewers built during the year is as follows: Brick, 2,162 lineal feet; pipe, 6,392 lineal feet, making the total length of the sewerage system about fifty miles.

PAUPER DEPARTMENT.

The cost of this department for the year 1886 was \$59,811.23. This includes all expenses for the poor. The average number supported for the year at the Farm was 336; the present number of inmates is 359. In addition there were 3,037 persons who received partial support. This number was divided among 874 families. There were 545 persons who had no settlement in Lowell but belonged to other cities or towns which were liable for their support.

Wood, coal and provisions to the amount of \$14,311.85 were dispensed to the worthy poor. There has also been expended the sum of \$2,056.75 for support of paupers at St. John's Hospital.

The City Farm is a credit to the city. None are refused a shelter there; no matter what their condition may be, all are cared for alike. I recommend that the appropriation be increased, so that a suitable laundry be added to the institution. I consider it an absolute necessity. For a detailed statement of this department I refer you to the annual report of the superintendent.

STATE AND MILITARY AID.

State aid is paid to those persons who are in receipt of a pension from the United States, which aid is refunded to the city by the state.

Military aid is paid to those indigent soldiers and sailors of the late war who do not receive a pension from the United States. Of the aid paid to this class, one-half is refunded to the city by the state.

The total amount of aid paid to both classes was \$17,982.25. Amount received from the state was \$14,030.75.

HEALTH.

It is one of the highest duties of the City Council to protect the health and lives of its citizens. The capital of the poor man is his health. The interest which he receives upon his capital is the wages of each day's labor. It is as much the duty of the City Government to protect that capi-

tal, principal and interest, as it is to protect our large manufacturing corporations. The health of the people is the real foundation upon which the prosperity of the city depends.

Our first and greatest want is the more rapid extension of our sewer system. I feel assured in my own mind that unless the sewerage of that portion of the city which I have recommended under the head of sewers is rapidly pushed, serious results will follow from the neglect.

I believe that the money appropriated for the health department has been well and judiciously expended. For a detailed statement of this department, I refer you to the annual report of the board of health. The net expenditure for the past year has been \$13,691.70.

WATER WORKS.

I am happy to be able to state that the Lowell Water Works are self-sustaining. They will require no appropriation this year; and the prospect now is that by careful management the water rates may be materially reduced, even before the debt is refunded, which will occur in 1891.

It should be the policy of the city to furnish its citizens with water at as low rates as possible, and eventually the time will come when there will be no "water debt," and the citizens can be

furnished with free water by a small annual appropriation.

This department in all its branches is in excellent condition, and the experience of the past year shows that the city can enjoy the blessing of pure, tasteless water in winter as well as in summer. For the details of the workings of this department I would refer you to the annual report of the water board.

CIVIL SERVICE.

The local Board of Civil Service Examiners, consisting of Messrs. C. E. Paige, J. J. Colton, and C. H. Conant, have held two examinations during the past year.

Twenty-eight persons have been examined, of whom twenty-one were for the clerical and seven for the police service.

Fourteen of the twenty-one passed the examination successfully, attaining a rank above 65 in 100, and of the seven police applicants three obtained the requisite rank.

No requisition for names for service in the police department has been made during the year, but for the purpose of filling positions in the clerical service ten requisitions have been made upon the Board and the persons selected have, without exception, performed efficient service in their respective departments.

CONCLUSION.

Gentlemen, we begin our work at a season favorable by tradition and custom to good resolutions. Let us begin, you, in your several positions, and I in mine, with the resolution that every act of ours shall be in the interest of the whole people of Lowell.

A wise discrimination in the election of heads of departments and other municipal servants is to be commended; a "clean sweep" does not always benefit the public or the sweepers.

Let the affairs of the city be so administered that our fellow citizens and all who come to our gates to find a place to live, work and invest capital may feel it safe to stay and help make Lowell richer, happier and greater.

MUNICIPAL REGISTER:

CONTAINING

RULES AND ORDERS

OF THE

CITY COUNCIL,

AND A LIST OF

THE GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL.

1887.



LOWELL, MASS.:

CAMPBELL & HANSCOM, PRINTERS.

1887.

JOINT RULES AND ORDERS OF THE CITY COUNCIL.

1. In the month of January joint standing committees shall be appointed as follows :—

- A COMMITTEE ON ACCOUNTS,
- A COMMITTEE ON CLAIMS,
- A COMMITTEE ON EDUCATION,
- A COMMITTEE ON THE FIRE DEPARTMENT,
- A COMMITTEE ON LANDS AND BUILDINGS,
- A COMMITTEE ON MILITARY AFFAIRS,
- A COMMITTEE ON ORDINANCES AND LEGISLATION,
- A COMMITTEE ON PRINTING,
- A COMMITTEE ON STREETS,
- A COMMITTEE ON COMMONS.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman ; of the Committee on Finance, the member first named in the Common Council shall be chairman ; and in all joint special committees, the member first named in the board where the business originates, shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted), to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed Ordinances; the enacting clause of which shall be—"Be it ordained by the City Council of the City of Lowell, as follows."

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to a second reading, but if it has not previously been in the hands of some joint committee it shall first be so referred. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceeding shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board, to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen, and be sent to the Mayor for his approval.

9. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the Clerk of the

Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature, if he approved the original.

10. Joint orders shall require but one reading, and when adopted shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

11. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day.

12. Every appropriation of money exceeding fifty dollars, shall be by resolution.

13. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order, shall be founded; and all papers on their passage between the two boards shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board, which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

14. All enrolled ordinances shall be written in a fair and legible hand, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

15. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

16. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

17. No committee shall enter into any contract with any of its

members, or purchase, or authorize the purchase of, any article therefrom.

18. No chairman of any committee shall audit or approve any bill or account against the city, for any supplies or services, which shall not have been ordered or authorized by the committee.

19. All reports and other papers submitted to the City Council shall be written in a fair hand, without endorsement, except in case of the introduction of an order or resolution. In such case, the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerks; and the clerks of the boards respectively shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

20. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on; unless by unanimous consent.

21. After the annual appropriations shall have been passed, no subsequent expenditure shall be authorized for any object, unless provision for the same shall be made by a specific transfer from some of the appropriations contained in the annual resolution, or by expressly creating therefor a city debt; but no such debt shall be created unless the resolution authorizing the same pass by the affirmative votes of two-thirds of the whole number of each branch of the City Council, said votes to be taken by yeas and nays, excepting in cases of appropriations for the providing of armories for the use of military companies, for the celebration of holidays, and for other purposes of public nature, when a vote of two-thirds of the members of each branch of the City Council present and voting shall be sufficient, but the amount of such appropriations named in this clause shall not exceed one-fiftieth part of one per cent. of the valuation of the city for the same year.

22. In ballotings in joint convention, blanks shall not be counted.

23. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

24. Reports of city officers, after being presented, shall remain in the office of the City Clerk two weeks before being printed.

25. All papers, of whatever description, relating to business requiring concurrent action of both boards of the City Council, must be presented to the City Clerk or the Clerk of the Common Council not later than noon on the day the meeting is to be held. Petitions, reports, or other papers, presented after that hour will not be taken up for action thereon until the next meeting.

26. These rules may be suspended for a specific purpose, or amended, whenever twenty-two members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and sixteen members of the Common Council.

RULES AND ORDERS OF THE BOARD OF ALDERMEN.

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows:—

First.—At all regular meetings, the journal of the last regular meeting, and all intervening meetings of the board, shall be approved without reading, unless the reading be called for by some member of the board.

Second.—Petitions and similar papers.

Third.—Appointments, elections, etc.

Fourth.—New business, which unless otherwise ordered, will take its place at the foot of the Orders of the Day.

Fifth.—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council, and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on a demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a recon-

sideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting, which latter motion shall have priority if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January, the following committees shall be appointed:—

- A COMMITTEE ON BILLS IN SECOND READING,
- A COMMITTEE ON ENROLLMENT,
- A COMMITTEE ON LICENSES,
- A COMMITTEE ON LIGHTING STREETS,
- A COMMITTEE ON POLICE,
- A COMMITTEE ON REPAIRS OF STREETS,
- A COMMITTEE ON SEWERS,
- A COMMITTEE ON WEIGHTS AND MEASURES,
- A COMMITTEE ON STATE AID.

The Committees on Licenses, on Police, and on Sewers shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee, the question shall first be upon a standing committee of the Board,

then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote, but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All petitions for the appointment or removal of police officers and watchmen, shall, before any action thereon is taken by the board, be referred to the Committee on Police.

14. All nominations of persons to serve as police officers and watchmen, shall, before action thereon by the board, be referred to the Committee on Police, who shall report upon such nominations at or before the next regular meeting after such reference.

15. All papers of whatever description, which may require action by this board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports, and other papers presented after that hour on such day, will not be considered until the next meeting.

RULES AND ORDERS OF THE COMMON COUNCIL.

1. The President shall take the chair precisely at the hour appointed for the meeting, call the members to order, and within ten minutes (or sooner, if a quòrum be present,) he shall cause the roll to be called and the names of absentees recorded. The first business after the roll call shall be the approval of the records of the previous meeting, which shall be approved without reading, unless their reading be called for by some member. In the absence of the President, the oldest member present shall call the Council to order, and preside until a President *pro tempore* be chosen.

2. He shall preserve order and decorum; may speak to points of order in preference to other members, rising from his seat for that purpose; and shall decide questions of order, subject to an appeal to the Council by any member.

3. He shall rise to address the Council, to state facts, but may put questions, or read, sitting.

4. He shall declare all votes: but if a vote be doubted, the President shall, without further debate, require the members voting in the affirmative and negative to rise and stand until they are counted, and he shall declare the result.

5. He may call any member to the chair, but such substitution shall not extend beyond an adjournment; and when out of the chair, the President may express his opinion on any subject under debate, and he shall not resume the chair while the same question is pending.

6. All questions shall be propounded in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the Council, unless the mover withdraw it before a decision or amendment.

8. A motion to adjourn shall always be in order; that and the motion to lay on the table, shall be decided without debate.

9. The previous question shall be in this form : “ Shall the main question be now put ? ” It shall only be admitted when demanded by a majority of members present ; and, until it is decided, shall preclude all amendment and further debate of the main question.

10. The yeas and nays shall be taken on any questions upon the request of one-third of the members present.

11. When two or more members happen to rise at the same time, the President shall name the member who shall speak first.

12. When any member is about to speak in debate, or deliver any matter to the Council, he shall rise in his place, and respectfully address the presiding officer, confining himself to the question under debate, and avoid personality.

13. No member shall be mentioned in debate by his name, but may be described by the place he sits in, or such other designation as may be intelligible and respectful.

14. No member speaking shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgress the rules of the Council, the President shall, or any member may, call him to order ; in which case, the member so called to order shall immediately be seated, until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed ; if otherwise, he shall not proceed without the leave of the Council.

15. No member shall speak more than twice to the same question, without obtaining leave of the Council.

16. Whilst the President or any member is speaking, none shall stand up or pass unnecessarily before the person speaking.

17. Every motion shall be reduced to writing, if the President or any member require it.

18. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely ; which several motions shall have precedence in the order in which they are arranged ; and no motion to postpone or

commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition.

19. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting; which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

20. Every member who shall be in the Council when a question is put, shall give his vote, unless the Council, for special reasons, excuse him.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or re-committed, at the pleasure of the Council.

23. The division of a question may be called for when the sense will admit of it.

24. When the reading of a paper is called for and objected to, it shall be determined by a vote of the Council.

25. No standing order of the Council shall be suspended, unless three-fourths of the members present consent thereto; nor shall any rule or order be repealed or amended, without one day's notice being given of the motion therefor, nor unless a majority of the whole Council concur therein.

26. All committees, except such as the Council determine to select by ballot, shall be nominated by the President.

27. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

28. All memorials and other papers, addressed to the Council, shall be presented by the President, or by a member in his place, who shall explain the subject thereof, and they shall be taken up in the order in which they were presented, unless the Council shall otherwise direct.

29. Standing committees shall be appointed on the following subjects : —

ON SECOND READING OF BILLS AND ORDINANCES,
ON ENROLLMENT,
ON ELECTIONS AND RETURNS.

30. No committee shall sit during the sittings of the Council without special leave, except the Committee on the Second Reading of Bills and Ordinances, and the Committee on Enrollment.

31. The rules of proceeding in the Council shall be observed in the Committee on the Whole, so far as they are applicable, except the rule limiting the time of speaking.

32. When a committee is nominated by the chair, the person first named shall be chairman. In election of committees by ballot, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman, and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

33. All ordinances and resolutions shall have two several readings before they shall be finally passed by this Council.

34. All ordinances, before being read a second time, shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which second reading, the question shall be on passing the same to be enrolled.

35. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

36. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.

37. All committees of the Council shall consist of three members, unless a different number be specially ordered. And no report shall be received from any committee, unless agreed to in committee actually assembled ; and all reports shall be in writing.

38. It shall be the duty of every committee of the Council, to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

39. The clerk shall keep brief minutes of the votes and proceedings of the Council, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles, or a brief description of their purport.

40. All salary officers shall be chosen by written or printed ballots, and in the election of any officers by ballot, blanks shall not be counted.

41. Members of the Council may attend meetings of any of its committees, but shall not vote thereat.

42. The clerk of the Common Council shall keep the record of committees who may require that service; and on the appointment of every standing committee, a book for records shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of the members of the City Council.

43. Any member offering a resolution, shall write his name on the bottom of the back of such resolution.

CITY GOVERNMENT FOR 1887.

MAYOR.

JAMES C. ABBOTT.....18 Fairmount Street.

ALDERMEN.

STEPHEN B. PUFFER.....428 Middlesex Street.

NATHAN D. PRATT.....35 Harrison Street.

FRANCIS C. PLUNKETT.....159 Worthen Street.

AUGUST FELS.....509 River Street.

PETER H. DONOHUE.....353 Central Street.

MILES J. FLETCHER.....9 West Adams Street.

FREDERICK FRYE.....1 Spaulding Street.

MARCELLUS H. FLETCHER.....6 Tyler Street.

STEPHEN B. PUFFER.....*Chairman.*

DAVID W. O'BRIEN.....*Clerk.*

COMMON COUNCILMEN.

Ward One.

MICHAEL J. GARVEY.....88 Adams Street.

DENNIS A. SULLIVAN.....216 Market Street.

DANIEL MURPHY.....49 Suffolk Street.

DENNIS J. LEARY.....139 Coburn Street.

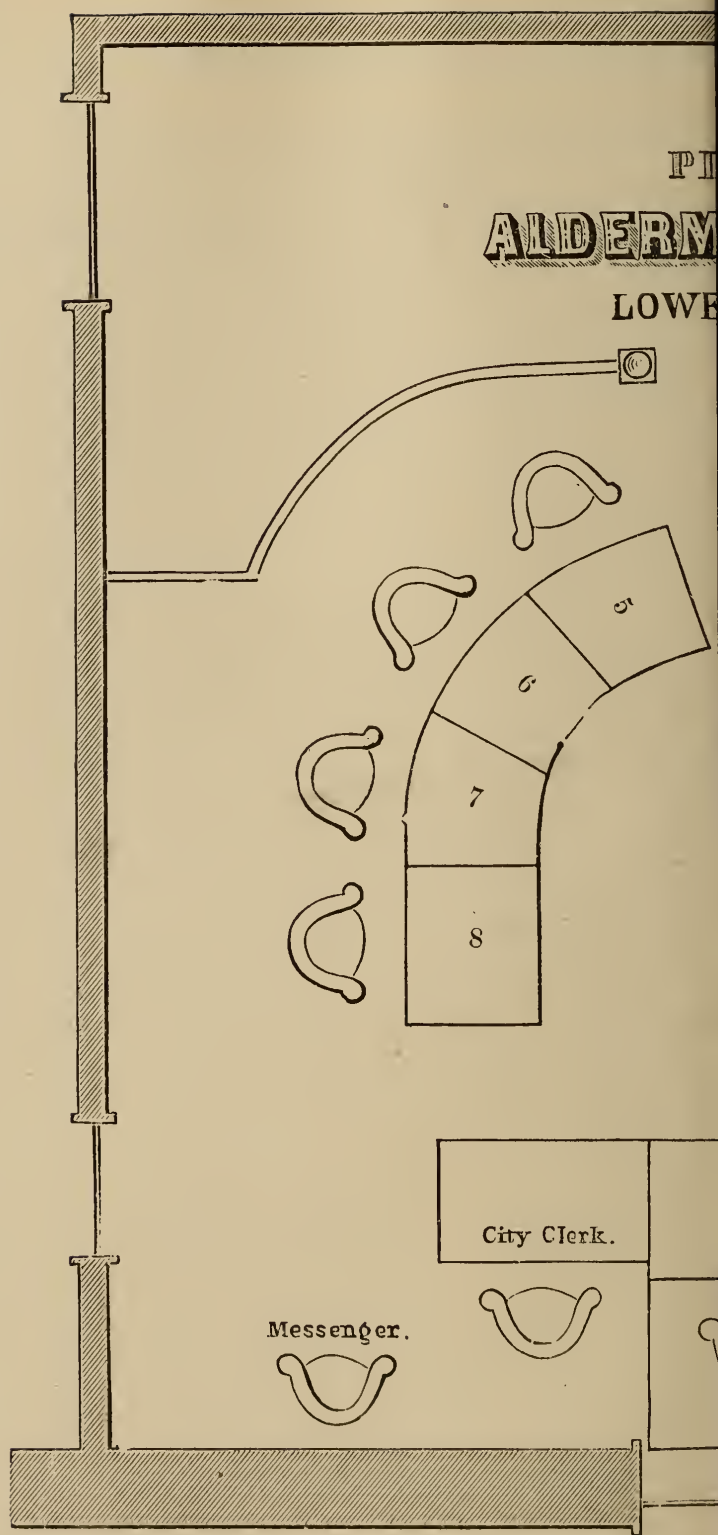
Ward Two.

WALTER M. SAWYER.....39 Third Street.

CHAS. H. RICHARDSON.....2 Shedd Street.

GEORGE C. EVANS.....15 Myrtle Street.

HORACE P. BEALS.....Prescott Yard.

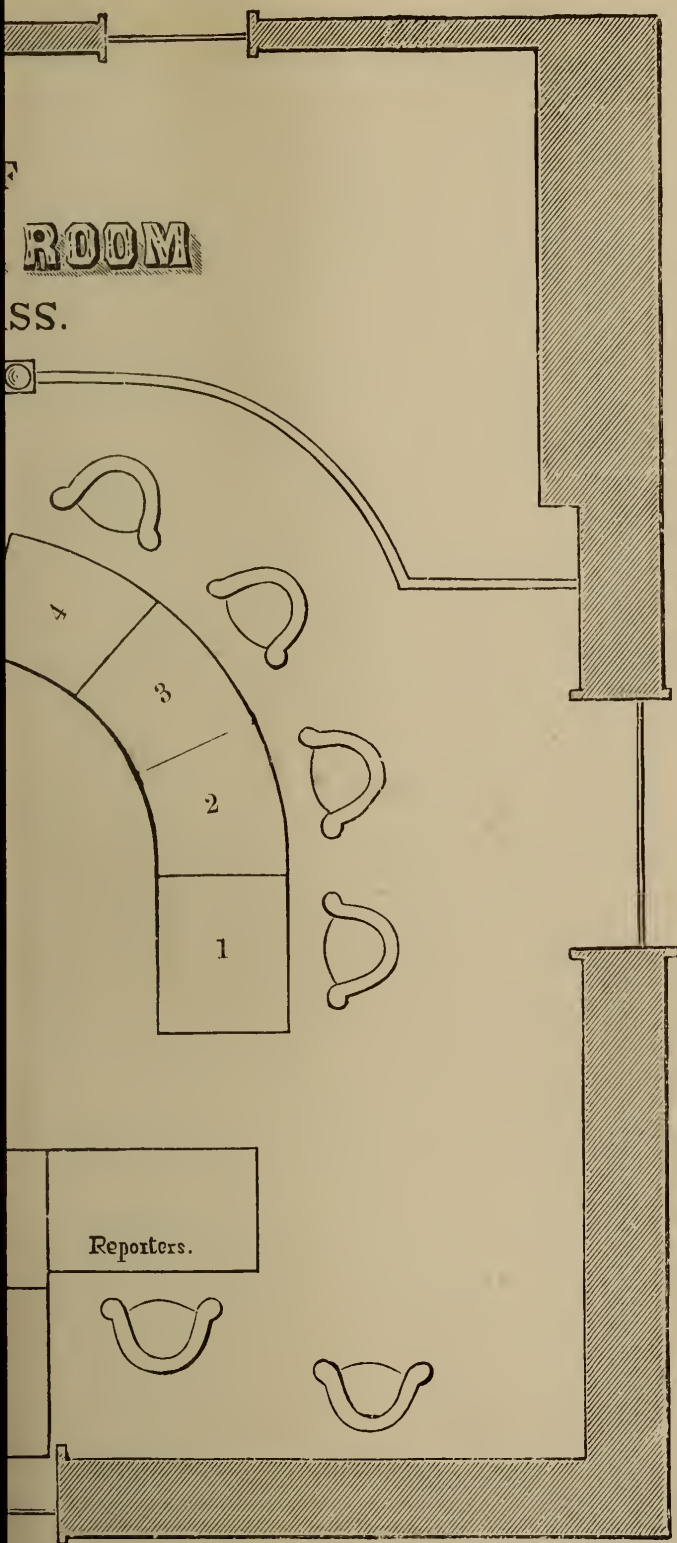


JAMES

- 1—MILES J. FLETCHER.
- 2—NATHAN D. PRATT.
- 3—MARCELLUS H. FLETCHER.
- 4—AUGUST FELS.

DAVID W. O

FRANK WOOD



F

ROOM

SS.



Reporters.



BOTT,

- 5—FREDERICK FRYE.
- 6—PETER H. DONOHUE.
- 7—STEPHEN B. PUFFER.
- 8—FRANCIS C. PLUNKETT.

City Clerk.

of Police.

Ward Three.

GEORGE B. McKENNA	10 Cedar Street.
JOHN NOLAN.....	362 Central Street.
DANIEL CLEARY	194 Lawrence Street.
PATRICK J. SMITH.....	11 Walnut Street.

Ward Four.

MILLARD F. WRIGHT.....	109 Branch Street.
EDMUND B. CONANT.....	45 W. Pine Street.
JESSE H. SHEPARD.....	260 Westford Street.
RICHARD DOBBINS.....	90 Liberty Street.

Ward Five.

ROSWELL M. BOUTWELL.....	96 Mt. Vernon Street.
GEORGE W. BROTHERS	99 School Street.
CLARENCE G. COBURN.....	34 Arlington Street.
JAMES H. CARMICHAEL.....	35 Salem Street.

Ward Six.

RICHARD B. ALLEN	264 Nesmith Street.
JOHN E. DRURY	107 Charles Street.
PATRICK CONLON.....	Concord Street.
EDWARD GALLAGHER.....	10 William Street.
JAMES H. CARMICHAEL.....	<i>President.</i>
WILLIAM J. COUGHLIN.....	<i>Clerk.</i>

MEETINGS OF THE CITY COUNCIL.

The regular meetings of the City Council are held at the City Hall, as follows :

Board of Aldermen.

January	5 and 19	June	1 and 15
February	2 and 16	July	6 and 20
March.....	2 and 16	September	7 and 21

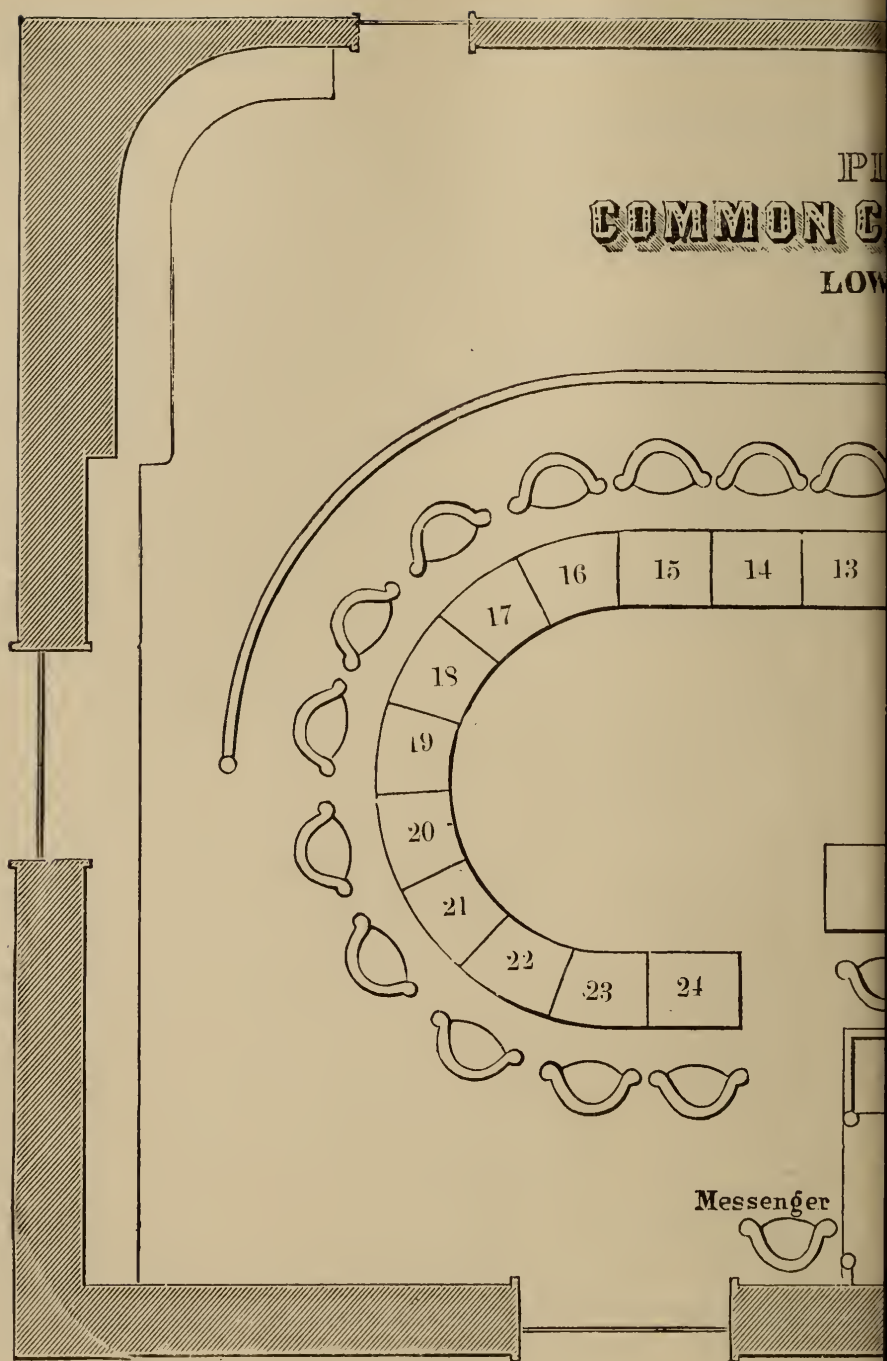
April	6 and 20	October	5 and 19
May	4 and 18	November	2 and 16
December			7 and 21

At 7.30 p. m.

Common Council.

January	11 and 25	June	14 and 28
February	8 and 22	July	12 and 26
March	8 and 22	September	13 and 27
April	12 and 26	October	11 and 25
May	10 and 24	November	8 and 22
December			13 and 27

At 8 p. m.



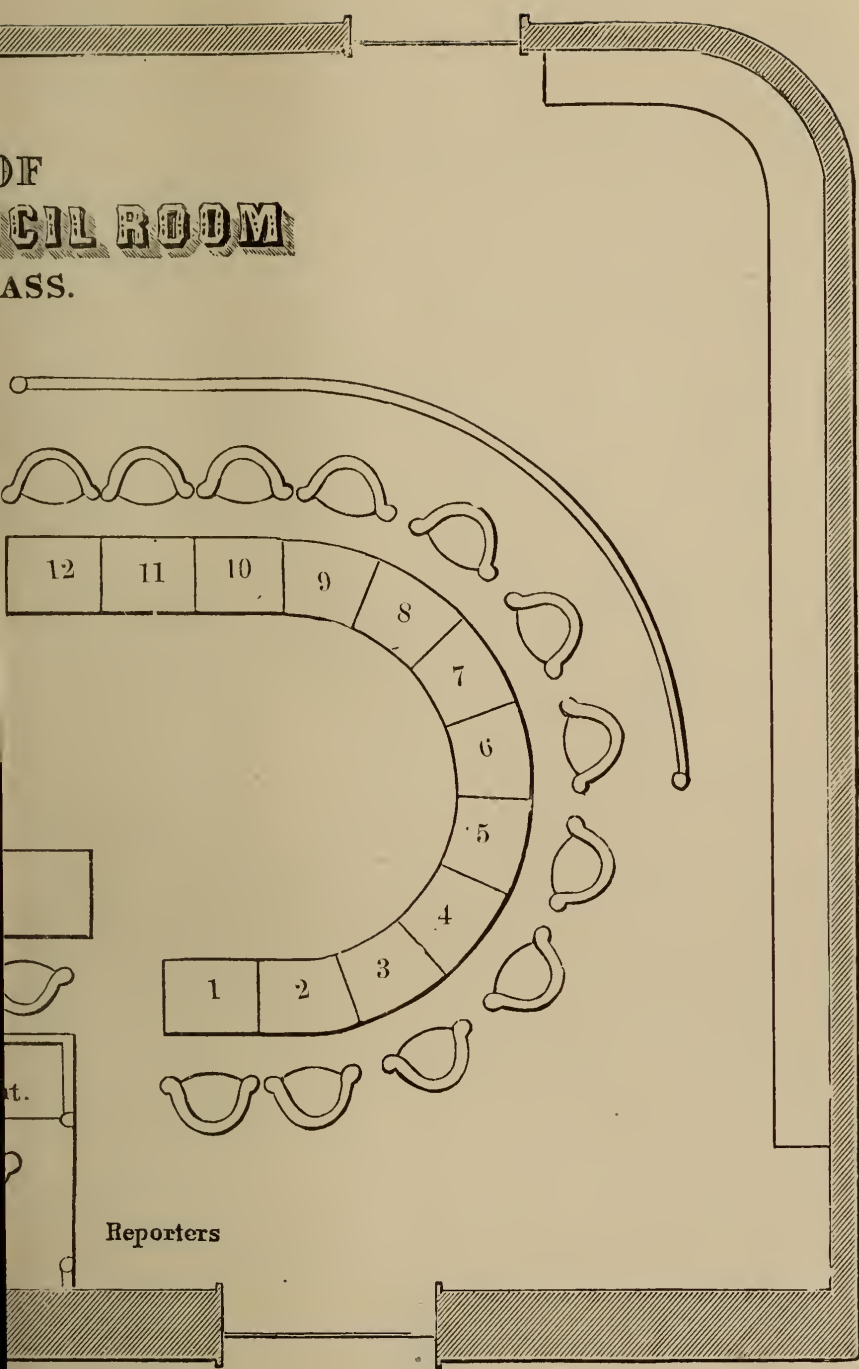
JAMES

- 1—CHARLES H. RICHARDSON.
- 2—ROSWELL M. BOUTWELL.
- 3—MILLARD F. WRIGHT.
- 4—JESSE H. SHEPARD.
- 5—JOHN NOLAN.
- 6—WALTER M. SAWYER.

- 7—CLARENCE G. COBUR
- 8—DENNIS A. SULLIVAN
- 9—DENNIS J. LEARY.
- 10—RICHARD B. ALLEN.
- 11—EDWARD GALLAGHER
- 12—DANIEL CLEARY.

WM. J. C
JOHN FWH

OF
COUNCIL ROOM
MASS.



RMICHAEL,

13—EDWARD B. CONANT.

14—JOHN S. DRURY.

15—GEORGE B. MCKENNA.

16—GEORGE W. BROTHERS.

17—GEORGE C. EVANS.

18—HORACE P. BEALS.

19—RICHARD DOBBINS.

20—DANIEL MURPHY.

21—PATRICK J. SMITH.

22—MICHAEL J. GARVEY.

23—VACANT.

24—PATRICK CONLAN.

, Clerk.

senger.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

FINANCE — Mayor Abbott and Alderman Pratt ; Councilmen Garvey, Leary, Carmichael.

ACCOUNTS — Aldermen Miles J. Fletcher, Frye ; Councilmen Murphy, Conlon, Boutwell.

CLAIMS — Aldermen Pratt, Donohoe ; Councilmen Sawyer, Coburn, Nolan.

EDUCATION — Aldermen Frye, Marcellus H. Fletcher ; Councilmen McKenna, Wright, Conlon.

FIRE DEPARTMENT — Aldermen Donohoe and Puffer ; Councilmen Leary, Drury, McKenna.

LANDS AND BUILDINGS — Aldermen Fels and Frye ; Councilmen Drury, Sullivan, Smith.

MILITARY AFFAIRS — Aldermen Plunkett and Puffer ; Councilmen Leary, Garvey, Smith.

ORDINANCES AND LEGISLATION — Aldermen Plunkett and Pratt ; Councilmen McKenna, Beals, Richardson.

PRINTING — Aldermen Pratt, Miles J. Fletcher ; Councilmen Allen, Drury, Garvey.

STREETS — Aldermen Puffer and Marcellus H. Fletcher ; Councilmen Murphy, Allen, Garvey, Cleary, Conant.

COMMONS — Aldermen Marcellus H. Fletcher and Fels ; Councilmen Conlon, Gallagher, Murphy.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

BILLS IN SECOND READING — Messrs. Plunkett and Frye.

LICENSES — Messrs. Miles J. Fletcher, Puffer and Frye.

ENROLLMENT — Messrs. Donohoe and Fels.

LIGHTING — Messrs. Fels and Puffer.

SEWERS — Messrs. Frye, Miles J. Fletcher and Puffer.

WEIGHTS AND MEASURES — Messrs. Marcellus H. Fletcher and
Donohoe.

POLICE — Messrs. Pratt, Marcellus H. Fletcher and Plunkett.

REPAIRS OF STREETS — Messrs. Puffer and Marcellus H. Fletcher.

STATE AID — Messrs. Plunkett, Puffer and Donohoe.

COMMON COUNCIL.

BILLS IN SECOND READING — Messrs. Cleary, Sullivan and Shepard.

ENROLLMENT — Messrs. Nolan, Brothers and Evans.

ELECTIONS AND RETURNS — Messrs. Leary, McKenna, Dobbins.

CITY OFFICERS, 1887.

CITY CLERK.

DAVID W. O'BRIEN.....Office, City Hall.

Chosen by the City Council in convention in January. City Charter, Section 17.

CITY TREASURER AND COLLECTOR OF TAXES.

VAN B. SLEEPER.....Office, City Hall.

Chosen by the City Council in convention in January. City Charter, Sect. 17.
Deputy Collectors are selected and appointed by the Treasurer and Collector.

AUDITOR OF ACCOUNTS.

WILLIAM J. COUGHLIN.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 2, Sect. 1.

SUPERINTENDENT OF STREETS.

EDWARD CAWLEY.....Office, at Civil Engineer's Room, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 35, Sect. 1.

SURVEYORS OF HIGHWAYS.

Alderman STEPHEN B. PUFFER; Councilmen RICHARD B. ALLEN
and DANIEL MURPHY.

Chosen by concurrent vote in January or February. City Charter, Sect. 17; Ord.
Chap. 35, Sect. 1.

CIVIL ENGINEER FOR THE CITY.

GEORGE BOWERS.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 13, Sect. 1.

MUNICIPAL REGISTER.

CITY MESSENGER.

JOHN EWING.....Office, City Hall.

Chosen by concurrent vote in January. Ord., Chap. 10, Sect. 1.

CITY SOLICITOR.

WILLIAM F. COURTNEY.....Mansur Block.

Chosen by concurrent vote in January or February. Ord., Chap. 11, Sect. 1.

LIBRARIAN OF THE CITY LIBRARY.

CHARLES H. BURBANK.....Office, at the Library, Masonic Temple.

Chosen by Board of Directors of City Library. Ord., Chap. 14, Sect. 4.

DIRECTORS OF THE CITY LIBRARY.

JAMES C. ABBOTT, Mayor.....	} <i>Ex</i> <i>Officiis.</i>
JAMES H. CARMICHAEL, President of Common Council.....	

HARRY DUNLAP.

WILLIAM G. WARD.

Term expires 1888.

EDWARD ELLINGWOOD.

ARTHUR F. SALMON.

Term expires 1889.

THOMAS C. LEE.

JOHN R. MARTIN.

Term expires 1890.

Meetings first Monday evening in each month.

The last six are chosen by concurrent vote in January or February (two each year). Ord., Chap. 14, Sect. 2.

SUPERINTENDENT OF PUBLIC BUILDINGS.

JOHN NEVINS.....Office, Middle Street.

Chosen by concurrent vote in January or February. Ord., Chap. 5, Sect. 1.

CITY PHYSICIAN.

JOHN J. COLTON.....Office, Bank Building, Shattuck Street.

Appointed by the Mayor and Aldermen, January, 1885, for three years. Public Statutes, Chap. 80, Sect. 15.

SUPERINTENDENT OF BURIALS.

JAMES F. O'DONNELL . . . Office, Corner Market and Worthen Streets.

Chosen by concurrent vote in January or February. Ord., Chap. 4, Sect. 1.

ASSESSORS OF TAXES.

Office, City Hall, Third Floor.

Term expires 1888.

Term expires 1889.

JAMES MARREN,

FRED N. EDGELL.

WILLIAM W. READ.

JOHN E. MAGUIRE.

MICHAEL H. McCUE.

OLIVER A. LIBBY.

MICHAEL H. McCUE, *Chairman*. FRED N. EDGELL, *Secretary*.

STEPHEN J. KIRBY, *Clerk*.

Assignment of Wards.

Ward 1 — MICHAEL H. McCUE. Ward 4 — JOHN E. MAGUIRE.

“ 2 — WILLIAM W. READ.

“ 5 — OLIVER A. LIBBY,

“ 3 — JAMES MARREN.

“ 6 — FRED N. EDGELL.

Chosen alternately by concurrent vote in January or February. Ord., Chap. 3, Sect. 1.

OVERSEERS OF THE POOR.

Office, City Hall.

JAMES C. ABBOTT, Mayor. *Ex-Officio*.

Term expires 1889.

Term expires 1888.

JOHN F. CALLAHAN.

ELWYN W. LOVEJOY.

JAMES H. MORRISON.

JAMES G. ELLIOTT.

JOHN NOLAN.

FREEMAN W. PUFFER.

Chosen for two years in January, one-half retiring annually. City Charter, Sec. 29.

JAMES C. ABBOTT, *Chairman*. JOSEPH SMITH, *Secretary*.

Sub-Committees.

ON ACCOUNTS — Messrs. Lovejoy, Elliott and Morrison.

ON FUEL AND OUT-DOOR RELIEF — The Mayor, Messrs. Morrison and Puffer.

ON AGRICULTURE, NEAT CATTLE AND SWINE — Messrs. Puffer, Callahan and Elliott.

ON CARE AND REPAIRS OF BUILDINGS — Messrs. Elliott, Nolan and Lovejoy.

ON CLOTHING, BEDDING AND FURNITURE — Messrs. Nolan, Callahan and Puffer.

ON PROVISIONS AND SUPPLIES — The Mayor, Messrs. Callahan and Puffer.

ON DISPENSARY — Messrs. Callahan, Nolan and Lovejoy.

ON WOOD YARD — Messrs. Morrison, Lovejoy and Nolan.

Regular Meeting of the Board at the City Almshouse, on the last week-day of each month, at 2.30 o'clock, p. m.

Institutions and Officers at the City Farm.

The institutions consist of the Almshouse, a Workhouse used for the imprisonment of certain convicts, and "The House for the Employment and Reformation of Juvenile Offenders in the City of Lowell." The farm embraces about one hundred and twenty-five acres, seventy-five of which are in a high state of cultivation.

ALBERT PINDER, *Superintendent*.

WILLIAM A. LANG, *Chaplain, and Teacher Reform School*.

Appointed by the Overseers of the Poor, annually, at the last meeting in December

There are also one Male Assistant and one Female Assistant, appointed by the Overseers of the Poor, annually, at the last meeting in December.

MEMBERS OF THE LOWELL WATER BOARD.

Office, City Hall.

CHARLES A. R. DIMON, *President*.

From the City Council — Alderman MARCELLUS H. FLETCHER; Councilmen JOHN E. DRURY, DANIEL CLEARY.

From the Citizens at Large — CHARLES A. R. DIMON, term expires 1888; MILES F. BRENNAN, term expires 1889.

Clerk, HORACE H. KNAPP.

Superintendent, ROBERT J. THOMAS.

The members of the Lowell Water Board are chosen by concurrent vote in January, and in March or April. Ord., Chap. 39, Sect. 1. The Superintendent is chosen in March or April, by concurrent vote. Ord., Chap. 39, Sect. 1. The clerk is chosen by the Board. Ord., Chap. 39, Sect. 2.

COMMISSIONERS OF SINKING FUNDS.

CHARLES C. HUTCHINSON.....Term expires 1888

CHARLES M. WILLIAMSTerm expires 1889

JAMES C. ABBOTT.....Term expires 1890

VAN B. SLEEPER, *Secretary and Treasurer.*

The Commissioners are elected under the provisions of Chapter 29 of Public Statutes, Sect. 10.

POLICE DEPARTMENT.

City Charter, Sect. 19. Ord., Chap. 28, Sect. 4; Chap. 279, Acts of 1867.

The members of this Department, except the Chief of Police, are appointed by the Mayor and Aldermen, as Police Officers and Watchmen, with all the powers of Constables, except the power of serving and executing civil process, and hold their offices during the pleasure of the Board of Aldermen.

Police Roll, 1887.

FRANK WOOD, Chief of Police.....2 Meadowcroft Street.

PETER T. CORCORAN, Deputy Chief of Police.....66 Warren Court.

CHARLES HOWARD, Captain of Police.....34 Livingston Street.

DANIEL M. HAYES, Inspector of Police21 Marion Street.

CHARLES LAFLAMME, Inspector of Police.....120 School Street.

FRANK GOODWIN, Inspector of Police.....115 Appleton Street.

ALEX. W. HARPER, Inspector of Police55 Walker Street.

JAMES E. WEBSTER, Sergeant.....205 Westford Street.

JAMES F. DUNLAVY, Sergeant.....261 Broadway

JOHN A. WALSH, SergeantThird Avenue.

JACOB G. FAVOR, Court Officer20 Mt. Washington Street.

PETER CAWLEY, Court Officer,172 Central Street.

Day Patrol.

COLLINS, CORNELIUS E160 Central Street.

DAVIS, GEORGE R54 Pleasant Street.

DUNLAVY, GEORGE F.....34 West Third Street.

ELLIOTT, ALBERT F.....76 Merrimack Street.

FARRINGTON, HENRY5 Coral Street.

GRADY, WILLIAM H	199 Thorndike Street.
GRINNELL, ENOCH N	20 Gold Street.
HOLLAND, JAMES E	12 Lagrange Street.
KEW, WILLIAM R	22 Tremont Corp.
LANE, DANIEL W	24 School Street.
McLAUGHLIN, JAMES	170 Stackpole Street.
PAGE, ALONZO J	286 Westford Street.
PIKE, HENRY C	9 South Canton Street.
SANBORN, THOMAS J	86 Grove Street.
TILTON, JOHN W	10 Whipple Street.

Night Patrol.

ALLEN, THOMAS E	West Street.
BROWN, LEVI	75 Appleton Street.
BUMPS, WILLIAM G	9 Reed Street.
BEALS, CYRUS M	23 Varnum Block, Bridge Street.
BLOOD, JOSIAH S	10 Coral Street.
BOYLE, JAMES	126 River Street.
BREAULT, ELOI N	50 West Sixth Street.
BURKE EDWARD	399 Central Street.
CREAHIN, JOHN	335 West Pine Street.
CROWLEY, JOHN B	222 Market Street.
DURROUGH, JOHN J	134 Lawrence Street.
DENNETT, JOHN S	4 Mass. Corp.
DOHERTY, JOHN J	59 Adams Street.
DONALDSON, DAVID J	47 Pleasant Street.
DUNFEY, JOHN M	Second Avenue.
DEMPSEY, JOHN J	15 Lagrange Street.
FITZPATRICK, PATRICK	20 West Pine Street.
FLAHERTY, JOHN J	34 Marion Street.
FURLONG, JOHN C	141 School Street.
FOX, EDWARD	7 Faulkner Street.
GOODHUE, DAVID H	163 School Street.
GREGG, CHARLES	27 Alder Street.
GARDNER, WILLIS L	Canton Street.

GALLIVAN, DENNIS F.....	76 Rock Street.
HICKSON, JOHN	10 Decatur Street.
HOLMAN, ALFRED M.....	1 Thompson Court.
HOWARD, CORNELIUS	67 Whipple Street.
INGALLS, THOMAS	25 West Fourth Street.
JONES, WILLIAM B.....	101 Branch Street.
LIBBY, ISAAC L.....	11 Coral Street.
LIBBY, ALBERT E.....	32 Third Street.
MARSHALL, GEORGE W.....	36 Pond Street.
MCQUADE, JAMES A.....	53 Appleton Street.
MOFFATT, WILLIAM B.....	33 London Street.
MCDONALD, MICHAEL E.....	82 Andover Street.
M McNABB, JAMES.....	Mammoth Road
McCARRON, WILLIAM.....	32 High Street.
MCDONALD, JOHN.....	324 Central Street.
McKAY, JOHN H.....	27 Cady Street.
McINTEE, CORMACK.....	1 Pike's Block, Adams Street.
O'DONNELL, PETER F	173 Merrimack Street.
O'CONNELL, JOHN	136 Gorham Street.
PROVENCHER, NAPOLEON	224 Central Street.
PLUNKETT, CHARLES J.....	228 Market Street.
RILEY, JAMES.....	87 Chapel Street.
STREETER, HERBERT P.....	33 John Street.
TILTON, HERMAN N.....	12 Whipple Street.
VARNUM, JOSEPH B	34 Lawrence Street.
WELCH, REDMOND, JR	8 North Street.

Michael E. McDonald is detailed to assist the City Solicitor, and Levi Brown and James A. McQuade are keepers at the Station House. Isaac L. Libby is Court Officer and Engineer.

Janitor.

JAMES CROWLEY Police Station

Constables.

WILLIAM J. REARDON,

JOSEPH H. BERGERON.

JACOB G. FAVOR.

DANIEL M. HAYES.

FRANK WOOD.	JOHN P. SEARLE.
CHARLES HOWARD.	BENJAMIN PATCH.
JOSEPH H. GUILLET.	HENRY KILESKI.
DAVID FITZGERALD.	HARRISON W. STREETER.
EUGENE M. HASKELL.	JOHN B. SWIFT.
CHARLES LAFLAMME.	PETER T. CORCORAN.
JAMES E. WEBSTER.	JOSEPH S. LAPIERRE.
FRANK GOODWIN.	JAMES B. TRUEWORTHY.
OVIDE E. BARIL.	ISIDORE TURCOTTE.
FRANCIS P. RIVET.	JOHN EWING.

City Charter, Sect. 19; Ord., Chap. 37, Sect. 2.

Police Court.

SAMUEL P. HADLEY.....	<i>Standing Justice.</i>
JOHN J. PICKMAN, } JOHN F. FRYE, }	<i>Special Justices.</i>
JAMES F. SAVAGE	<i>Clerk.</i>

HEALTH COMMISSIONER.

FRANK WOOD.....Office, Police Station.
Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

BOARD OF HEALTH.

CHARLES R. COSTELLO, 1887-88. DR. NATHAN ALLEN, 1886-87.
JOHN J. COLTON, City Physician.....*Ex-Officio.*
Appointed by the Mayor and Aldermen in January. Chap. 80, Pub. Stat., Sect. 8; Ord., Chap. 22, Sect. 1.

BOARD OF REGISTRARS OF VOTERS.

JOHN P. MAHONEY.....until May 1, 1890.
FRED P. MARBLE.....until May 1, 1889.
J. FRANK PAGE.....until May 1, 1888.
DAVID W. O'BRIEN, City Clerk.....*Ex-Officio.*
Chairman, FRED P. MARBLE.
Chap. 298, Sect. 14, Acts of 1884.

FENCE VIEWERS.

ALBERT PINDER.

JOSHUA M. HADLEY.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

SURVEYORS OF LUMBER.

LOREN C. BRAINARD.

HENRY L. LOVEJOY.

ALFRED P. BATEMAN.

ATIS OSGOOD.

JOHN F. BATEMAN.

JOSEPH C. BACHELDER.

FREDERICK CONANT.

O. M. PRATT.

GEORGE A. ROPER.

JAMES T. TRASK.

CHARLES O. DAVIS.

HARRY B. PETTENGILL.

CHARLES E. HOWE.

GEORGE W. CLIFFORD.

EDWARD STOCKMAN.

CHARLES H. WHITMORE.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

FIELD DRIVERS.

JAMES E. WEBSTER.

JAMES RILEY.

FRANK GOODWIN.

DENNIS T. GALLAVIN.

ALEX. W. HARPER.

JOHN C. FURLONG,

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

POUND KEEPER.

JAMES MANUEL.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

**Measurer of Wood and Bark—Superintendent of City
Scales—Inspector of Bale or Bundle Hay.**

RICHARD J. NOONAN....Office at City Scales, rear of Market-House
Building.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 21*
Sect. 1.

MEASURERS OF WOOD AND BARK.

JOSEPH C. BATCHELDER.....
 EUGENE A. STANLEY.....At 63 Moody Street.
 THOMAS J. SAYERS.....
 CLARENCE G. COBURN.....At Pawtucket Square.
 EDWIN E. AREY.....At Tannery, Ayer's City.
 JAMES F. MCKISSOCK.....At No. 25 First Street.
 JOSEPH HOVEYIn Centralville.
 SIDNEY DAVIS

Appointed by the Board of Aldermen in January or February, Ord., Chap. 40, Sect. 1.

WEIGHERS OF COAL.

JAMES CAWLEY.	JOSEPH J. REDMOND.
S. W. WIGGIN.	JOHN C. PARKER.
CLAUDE BOARDMAN.	FRANK H. PARKER.
ARTHUR W. CARPENTER.	DANIEL W. HORNE.
AUGUSTUS W. WEEKS.	LORENZO WOOD.
PETER MOLLAHAN.	JOHN H. HOWARD.
CHARLES H. CROWELL.	SYDNEY DAVIS.
WILLIS J. HILL.	LEONARD T. FARRIS, JR.
ERWIN A. WILSON.	EUGENE A. STANLEY.
ARTHUR W. CARPENTER.	WALTER T. MOORE.
EDWARD CAWLEY.	JOHN WARBURTON.

EDMUND BRICKETT.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sec. 2.

SEALER OF WEIGHTS AND MEASURES.

JAMES T. MURRAY.....Office, 57 Market Street.
 Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sec. 2.

INSPECTOR OF MILK AND VINEGAR.

LAWRENCE J. McDONOUGH, M. D.....Office, Corner Worthen and
 Broadway.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sec. 2.

Surveyors of Plastering, Brick or Stone Work, and Painting.

JOSEPH C. BACHELDER.

ALDEN B. ILLSLEY.

GEORGE E. EVANS.

ORA M. SNELL.

JOSHUA M. HADLEY.

MELVIN B. SMITH.

ATIS OSGOOD.

ORIN F. OSGOOD.

JOHN F. BATEMAN.

Appointed by the Board of Aldermen in January or February.
Ord., Chap. 37, Sec. 2.

MEASURERS OF GRAIN.

JAMES BERRY.

GEORGE W. TILTON.

Fees, 2½ mills per bushel for measuring. Appointed by the Board of Aldermen
in January or February. Ord., Chap. 37, Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES.

EDMUND BRICKETT...At Scales, cor. Western Ave. and Fletcher St.

CLARENCE G. COBURNAt Scales, in Pawtucket Square.

ORVILLE W. PEABODYAt Hall & Peabody's, Dutton Street.

CHARLES H. CROWELLAt E. G. Parker's yard, Gorham Street.

OLIVER D. WILDER.....At Elevator Building, Western Ave.

LEROY C. HALL.....Dutton Street, near Mechanics' Mills.

FRANK H. PARKER

Appointed by the Board of Aldermen in January or February. Ord., Chap. 21, Sect. 1.

Measurers of Wood and Bark Brought by Water or Railroad Cars into the City.

JAMES T. TRASK.

HARRY B. PETTENGILL.

JOHN F. BATEMAN.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 40, Sec. 1.

INSPECTORS OF PETROLEUM OILS.

THOMAS J. FARRELL.

GEORGE B. ROOT.

Appointed by the Mayor and Board of Aldermen. Chap. 59 of Pub. Stat., Sect. 6.

MEASURERS OF UPPER LEATHER.

WILLIAM A. BROWN. WILLIAM H. WHITE. EDWIN E. AREY.

Appointed by the Board of Aldermen in April. Ord., Chap. 37, Sect. 2.

FISH-WARDEN.

OREN C. CARLTON.....Office, 22 Third Street.

Appointed by the Mayor and Aldermen. Chap. 91 of Pub. Stat., Sect. 42.

INSPECTORS OF BOILERS.

RICHARD DOBBINS.....Office, Tanner Street.

BARTHOLOMEW SCANNELLOffice, 36 Tanner Street.

Pub. Stat., Chap. 102, Sect. 49.

INSPECTORS OF PROVISIONS.

JACOB G. FAVOR.....Office, Police Station.

DANIEL W. LANE.....“ “ “

ALEXANDER W. HARPER“ “ “

CHARLES HOWARD.....“ “ “

JAMES E. WEBSTER.....“ “ “

Appointed by the Mayor and Aldermen. Chap. 58, Pub. Stat., Sect. 1.

JANITOR OF HUNTINGTON AND JACKSON HALLS.

JOHN F. COSGROVE.

Appointed by the Mayor.

FIRE DEPARTMENT, 1886-87.

The Chief and Assistant Engineers are appointed annually by the Mayor and Aldermen in the months of March or April for the term of one year from the first day of May next succeeding. All other members of the Fire Department are nominated by the Board of Engineers, and appointed by the Mayor and Aldermen; and vacancies may be filled.

City Charter, Sect. 31; Ord, Chap. 20, Sect. 1; Chap. 35 Pub. Stat.

CHIEF ENGINEER.

THOMAS J. FARRELL.....100 Bridge Street.

Office, Engine House, Middle Street.

ASSISTANT ENGINEERS.

JAMES F. NORTON282 Central Street.

EDWARD MELOY.....19 Elm Street.

CHARLES W. MARRIOTT393 Middlesex Street.

GEORGE F. SALMON.....120 Cross Street.

JAMES F. NORTON, Clerk of the Board.

The Clerk is chosen by the Engineers.

OPERATOR OF FIRE ALARM TELEGRAPH.

G. B. WHITNEYResidence, 80 Middle Street.

COMMITTEE ON FIRE DEPARTMENT.

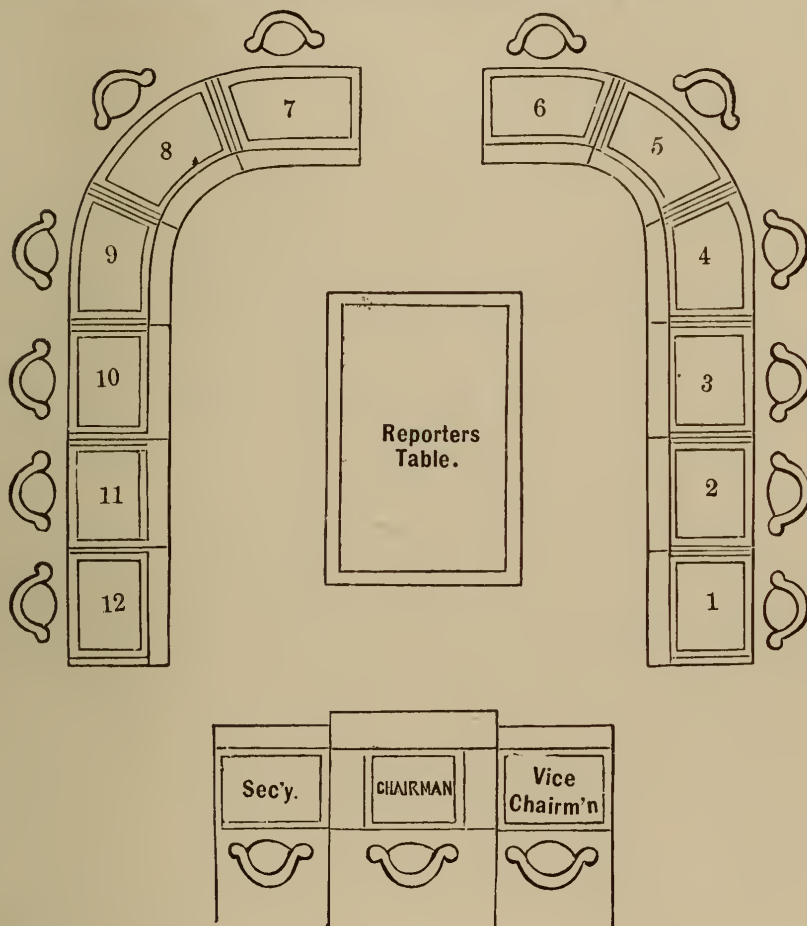
Aldermen DONOHUE and PUFFER; Councilmen LEARY, DRURY and
McKENNA.

SCHOOL COMMITTEE, 1887.

JAMES C. ABBOTT.....*Chairman.*
 GEORGE W. BATCHELDER.....*Vice-Chairman.*
 GEORGE F. LAWTON.....*Secretary.*

JAMES C. ABBOTT, Mayor	}	<i>Ex-</i>
JAMES H. CARMICHAEL, President Common Council	}	<i>Officiis.</i>
132 Ford Street.		
Ward 1 — LAWRENCE CUMMINGS.....		Term expires 1887.
61 Adams Street.		
STEPHEN J. JOHNSON	“	“ 1888.
231 Merrimack Street.		
Ward 2 — GEORGE E. STANLEY.....	“	“ 1887.
105 Beacon Street.		
GUSTAVUS A. GERRY.....	“	“ 1888.
41 Third Street.		
Ward 3 — JOHN J. CLUIN.....	“	“ 1887.
52½ Central Street.		
DANIEL J. DONAHUE.....	“	“ 1888.
65 Union Street.		
Ward 4 — GEORGE W. BICKNELL.....	“	“ 1887.
261 Westford Street.		
RANSOM A. GRÈENE.....	“	“ 1888.
25 Walker Street.		
Ward 5 — GEORGE W. BATCHELDER.....	“	“ 1887.
7 Arlington Street.		
ANDREW G. SWAPP	“	“ 1888.
187 Pawtucket Street.		
Ward 6 — CHARLES H. CONANT	“	“ 1887.
54 Chestnut Street.		
TERRENCE F. MOLLOY	“	“ 1888.
99 High Street.		

PLAN OF
SCHOOL COMMITTEE ROOM
LOWELL, MASS.



JAMES C. ABBOTT, *Chairman.*

GEORGE W. BATCHELDER, *Vice Chairman.*

GEO. F. LAWTON, *Secretary.*

1—ANDREW G. SWAPP.

2—STEPHEN J. JOHNSON.

3—JOHN J. CLUIN.

4—RANSOM A. GREENE.

5—GEORGE W. BICKNELL.

6—GUSTAVUS A. GERRY.

7—GEORGE E. STANLEY.

8—CHARLES H. CONANT.

9—DANIEL J. DONAHUE,

10—TERRENCE F. MOLLOY.

11—LAWRENCE CUMMINGS.

12—JAMES H. CARMICHAEL.

STANDING COMMITTEES.

- ON ACCOUNTS — The Mayor, Messrs. Carmichael, Batchelder, Johnson, Conant.
- ON SCHOOL HOUSES AND HYGIENE — Messrs. Batchelder, Greene, Conant, Stanley, Gerry.
- ON TEACHERS — Messrs. Johnson, Donahue, Conant, Batchelder, BICKNELL.
- ON REPORTS AND PRINTING — Messrs. Donahue, Swapp, Bicknell, Cummings, Molloy.
- ON BOOKS AND SUPPLIES — Messrs. Cluin, Greene, Donahue, Cummings, Swapp, Johnson.
- ON SALARIES — The Mayor, Messrs. Gerry, Bicknell, Stanley, Molloy.
- ON PENMANSHIP AND DRAWING — Messrs. Greene, Swapp, Batchelder, Cluin, Stanley.
- ON MUSIC — Messrs. Molloy, Donahue, Johnson, Conant, Gerry.
- ON EVENING SCHOOLS — Messrs. Cummings, Greene, Cluin, Swapp, Molloy.
- ON RULES AND REGULATIONS — Messrs. Gerry, Molloy, Bicknell, Conant, Cummings.
- ON MILITARY INSTRUCTION — Messrs. Bicknell, Cluin, Stanley, Batchelder, Molloy.
- ON PRIVATE SCHOOLS — The Mayor, Messrs. Stanley, Cluin, Gerry, Johnson.
- ON HIGH SCHOOL — The Mayor, Messrs. Carmichael, Johnson, Gerry, Cluin, Donahue, Greene, Swapp.

ASSIGNMENT OF SCHOOLS.

- THE MAYOR — High and Reform.
- PRESIDENT J. H. CARMICHAEL — High and Reform.
- MR. CUMMINGS — Green, Cabot Street, Rock Street, Cheever Street, Elliot Street.
- MR. JOHNSON — High, Reform, Mann, Kirk Street, Central Street, Chapel Street, Cottage Street.

- MR. STANLEY — West Sixth Street, Tenth Street, Morrill, River Street.
- MR. GERRY — High, Varnum, Fourth Street.
- MR. CLUIN — High, Butler, Agawam Street, Carter Street.
- MR. DONAHUE — High, Colburn, London Street, Weed Street.
- MR. BICKNELL — Highland, Franklin, Powell Street.
- MR. GREENE — High, Edson, Dover Street, Plain Street.
- MR. BATCHELDER — Pawtucket, Mammoth Road, Varnum Avenue, Middlesex Village, Howard Street, Annex on Grand Street.
- MR. SWAPP — High, Bartlett, School Street.
- MR. CONANT — Moody, High Street, Ames Street, Charles Street.
- MR. MOLLOY — Church Street, Lyons Street, Pond Street, Fayette Street.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE.
1887.

January	31	July.....	25
February.....	28	August.....	29
March.....	28	September.....	26
April.....	25	October.....	24
May.....	30	November.....	28
June.....	27	December.....	25

SUPERINTENDENT OF PUBLIC SCHOOLS.

GEORGE F. LAWTONOffice in the City Hall.

OFFICE HOURS.—One hour after the forenoon session; and on Wednesday and Saturday afternoon, from 2 to 3 o'clock.

SUPERVISOR OF EVENING SCHOOLS.

JOHN A. SMITH.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BIRMINGHAM. JOHN F. WILLIAMS.

JAMES KELLY.

Office in the City Hall.

POPULATION OF THE CITY OF LOWELL.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population
1828	3,532	1837	18,010	1855	37,554	1875	49,688
1830	6,477	1840	20,981	1860	36,827	1880	59,485
1832	10,254	1844	25,163	1865	30,990	1885	*64,051
1833	12,963	1846	29,127	1866	36,878	....	.....
1836	17,633	1850	33,383	1870	40,928	....	.....

* Amended Returns, 64,107.

POPULATION, LEGAL VOTERS, ETC., BY WARDS.

Wards	Popula- tion, 1885.	Regist'd Voters, Dec. 1885.	Pre- cincts.	Registered Voters, Dec. 1886.			Vote for Mayor, '86.	
				Males.	Females.	Total.	Plimpton	Abbott.
1.....	10,654	1,470	1.....	504	0			940
			2.....	434	0			
			3.....	523	0	1,461	357	
2.....	9,811	1,728	1.....	358	9			780
			2.....	599	12			
			3.....	730	1	1,709	723	
3.....	12,056	1,863	1.....	630	3			1,156
			2.....	713	1			
			3.....	589	4	1,940	502	
4.....	10,406	1,818	1.....	544	1			432
			2.....	589	3			
			3.....	748	4	1,889	1,124	
5.....	12,392	1,596	1.....	512	7			667
			2.....	461	1			
			3.....	572	10	1,563	700	
6.....	8,732	1,624	1.....	631	10			868
			2.....	527	25			
			3.....	507	9	1,709	616	
Total.	64,051	10,099	.....	10,171	100	10,271	4,022	4,843

CATALOGUE
OF THE
GOVERNMENT OF THE CITY OF LOWELL,
IN
CHRONOLOGICAL ORDER OF SERVICE,

From its Institution, 1836, to 1886, Inclusive.

1836.**Mayor:**

ELISHA BARTLETT.

Aldermen:

William Austin, resigned Oct. 10,
Joseph Tapley, elected November,
Seth Ames,
Aaron Mansur,

Benjamin Walker,
Oliver M. Whipple,
Alexander Wright.

SAMUEL A. COBURN, CITY CLERK.

Common Council:

John Clark, *President*,
Henry J. Baxter,
Jonathan Bowers,
George Brownell,
James Cook,
David Dana,
Erastus Douglass,
Josiah B. French,
Cyril French,
Samuel Garland,
Horatio W. Hastings,
Horace Howard,

Stephen Mansur,
John Mixer,
Thomas Nesmith,
David Nourse,
Thomas Ordway,
James Russell,
John A. Savels,
Sidney Spalding,
Weld Spalding,
Jonathan Tyler,
Tappan Wentworth,
William Wyman.

GEO. WOODWARD, CLERK, died. ALBERT LOCKE, elected.

1837.**Mayor:**

ELISHA BARTLETT, † '36.

Aldermen:

Seth Ames, * '36,
John Aiken,
Seth Chellis,

Joseph G. Kittredge,
Joshua Swan,
Alexander Wright, * '36.

SAMUEL A. COBURN, CITY CLERK.

Common Council:**WARD 1.**

Joshua Abbott,
James K. Fellows,
Jesse Phelps,
Walter Wright

WARD 2.

William Fiske,
Thomas Nesmith, '36,
Josiah Osgood,
Joseph Tyler.

WARD 3.

Joseph M. Dodge,
Elisha Huntington, *President*,
William North,
Joseph Tapley.

WARD 4.

William Baker,
Elijah M. Read,
Charles H. Wilder,
William W. Wyman.

WARD 5.

George Brownell, '36,
Osgood Dane,
James Russell, '36,
Tappan Wentworth, '36,

WARD 6.

Andrew Bird,
Benjamin H. Gage,
Jona. T. P. Hunt,
Abram Tilton.

ALBERT LOCKE, CLERK.

The figures without other marks indicate membership of the Common Council those years.
† Mayor that year. * Alderman that year. ‡ President of Common Council that year.

1838.**Mayor:****LUTHER LAWRENCE.****Aldermen:**

Benjamin F. French,
Charles L. Tilden,
Oliver M. Whipple, * '36,

George H. Carleton,
George Brownell, '36, '37,
Seth Chellis, * '37.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

Jesse Phelps, '37,
Walter Wright, '37,
Eliphalet Brown,
Perez Fuller.

WARD 2.

William Fiske, '37,
Aaron H. Sherman,
William Upham,
Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson,
Elisha Huntington, ‡ '37, *President*,
Horace Howard, '36,
John Mixer, '36.

WARD 4

David Dana, '36,
Perley Hale,
Benjamin Walker, * '36,
William Baker, '37.

WARD 5.

Garret J. Bradt,
Benjamin Wilde,
Erastus Douglass, '36,
Rufus Paul.

WARD 6.

Eli Cooper,
Thomas L. Randlett,
James L. Foot,
Calvin Goodspeed.

ALBERT LOCKE, CLERK.

1839.**Mayor:****LUTHER LAWRENCE,—[DIED IN APRIL.]****ELISHA HUNTINGTON, ‡ '37, ‡ '38.****Aldermen:**

Benjamin F. French, * '38,
John O. Green,
Charles L. Tilden, * '38,

George H. Carleton, * '38,
John Clark, ‡ '36,
Oliver M. Whipple, * '36, * '38.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

Walter Wright, '37, '38,
Harlin Pillsbury,
Eliphalet Brown, '38,
Forrest Eaton.

WARD 2.

Jonathan Tyler, '36,
John Nesmith,
Henry J. Baxter, '36, '38,
Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, *President*.
Jacob Robbins,
John G. Locke.

WARD 4.

Benjamin Walker, * '36, '38.
Samuel Horn,
Stephen Carleton,
Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37,
Lewis McIntire, died Feb., '40,
Benjamin Wilde, '38,
Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38,
Joseph S. Holt,
John L. Fitts,
Daniel Knapp.

ALBERT LOCKE, CLERK.

1840.**Mayor.**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39.

Aldermen:Jonathan Tyler, '36, '39.
John R. Adams,
Joseph Bedlow,Harlin Pillsbury, '39,
Seth Ames, * '36, * '37,
Stephen Mansur, '36, '39.

THOMAS ORDWAY, CITY CLERK,

Common Council.**WARD ONE.**Forrest Eaton, '39,
Sylvanus Adams,
Henry Patch,
R. M. Hutchinson.**WARD 2.**Jefferson Bancroft, '39,
John Nesmith, '39,
Joseph G. Kittredge, * '37,
Josiah Osgood, '37.**WARD 3.**Pelham W. Warren, *President*,
Abner W. Buttrick,
Asa Hall,
Samuel Burbank.

ALBERT LOCKE, CLERK, died October. JOHN G. LOCKE, elected October.

WARD 4.Ferdinand Rodliff,
Ethan Burnap,
Edward F. Watson,
B. Walker, * '36 '38 '39, died Sept.**WARD 5.**Tappan Wentworth, '36, '37, '39,
Samuel W. Brown,
John J. Crane,
George Dane.**WARD 6.**Daniel Knapp, '39,
George L. Fitts, '39,
Joseph Battles,
Joshua Converse.**1841.****Mayor:**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40.

Aldermen:Seth Chellis, * '37, '38,
Jefferson Bancroft, '39, '40,
Cyril French, '36,George H. Carleton, * '38, * '39,
John R. Adams, * '40,
John Aiken, * '37.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Henry Patch, '40,
George Bragdon,
John W. Holland,
Arnold Welch,**WARD 2.**William Fiske, '37, '38,
Erasmus D. Leavitt,
Jonathan White,
Nathaniel Wilson.**WARD 3.**Samuel Burbank, '40,
Nathaniel Critchett,
Royal Southwick,
Edward Winslow.**WARD 4.**Ethan Burnap, '40,
William Livingston,
John Morrison,
Edward F. Watson, '40,**WARD 5.**Tappan Wentworth, '36, '37, '39,
'40, *President*,
Samuel W. Brown, '40,
John J. Crane, '40,
Phineas Whiting.**WARD 6.**Francis H. Bowers,
Isaac H. Cooper,
William Potter,
John Smith.

JOHN G. LOCKE, CLERK.

1842.

Mayor:

NATHANIEL WRIGHT.

Aldermen:

Nathaniel Thurston,
 Jefferson Bancroft, '39, '40, '41,
 Cyril French, '36, * '41,

William Livingston, '41,
 Ithamar A. Beard,
 John W. Graves.

THOMAS ORDWAY, CITY CLERK.

Common Council;

WARD 1.

Jeremiah P. Jewett,
 John Hadley,
 James Townsend,
 Edward J. Payne.

WARD 2.

John Nesmith, '39, '40,
 Erasmus D. Leavitt, '41,
 Joseph W. Mansur, *President*,
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41,
 Ira Spalding,
 John Mead,
 Asa W. Willoughby.

WARD 4.

John Morrison, '41,
 William Carlton,
 Oliver March,
 Josiah B. French, '36.

WARD 5.

James Patterson,
 Isaac Appleton,
 Josiah Seavey,
 Roswell Douglass.

WARD 6.

James Russell, '36, '37,
 Jonathan Kendall,
 Varnum A. Shedd,
 Isaac N. Fitts.

JOHN G. LOCKE, CLERK.

1843.

Mayor:

NATHANIEL WRIGHT, † '42.

Aldermen;

Harlin Pillsbury, '39, * '40, res'd June,
 Henry C. Johnson,
 Cyril French, '36, * '41, * '42,

S. Spalding, '36, resigned in June
 Joseph Griffin,
 Charles L. Tilden, * '38, '39.

THOMAS ORDWAY, CITY CLERK.

Common Council:

WARD 1.

Daniel Bixby,
 Edward J. Payne, '42,
 Hugh Cummiskey,
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39,
 John P. Simonds,
 Pliny Lawton,
 Ben Osgood.

WARD 3.

John Mead, '42,
 Willard Brown,
 Ira Spalding, '42,
 Benjamin J. Gerrish.

WARD 4.

Otis Allen,
 Alfred Gilman,
 Oliver March, '42, *President*,
 William Carlton, '42.

WARD 5.

James Patterson, '42,
 David Bradt,
 John L. Tripp,
 Benjamin F. Holden.

WARD 6.

John B. McAlvin,
 Cyrus Battles,
 Sewall G. Mack,
 Charles F. Mitchell.

JOHN G. LOCKE, CLERK.

1844.**Mayor:**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41.

Aldermen:Henry Smith,
Selwin Bancroft,
O. M. Whipple, * '36, * '38, * '39.Edward F. Watson, '40, '41,
Joseph Griffin, * '43,
John Wright.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Forrest Eaton, '39, '40,
Gilman N. Nichols,
Hugh Cummiskey, '43,
David Healey.**WARD 2.**John P. Simonds, '43,
Ben Osgood, '43,
Amos Merriam,
John Clark, ‡ 36, * '39, *President.***WARD 3.**Charles B. Coburn,
George Choate,
Isaac Scripture,
William C. Gray.**WARD 4.**Asa Wetherbee,
Abner W. Buttrick, '40,
Horatio G. F. Corliss,
Charles H. Wilder, '37.**WARD 5.**John L. Tripp, '43,
David Bradt, '43,
John Wright,
Nathaniel Wright, Jr.**WARD 6.**Sewall G. Mack, '43,
James Russell, '36, '37, '42,
Jonathan Kendall, '42,
Gilman Gale.

JOHN G. LOCKE, CLERK.

1845.**Mayor.**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41, †'44.

Aldermen:Henry Smith, * '44,
Selwin Bancroft, * '44,
O. M. Whipple, * '36, * '38, * '39, * '44,Edward F. Watson, '40, '41, * '44,
John C. Dalton,
Daniel Knapp, '39.

THOMAS ORDWAY, CITY CLERK.

Common Council.**WARD 1.**Gilman N. Nichols, '39,
Danforth P. Brigham,
Jonathan Adams,
Willard C. Welch.**WARD 2.**John P. Simonds, '43, '44,
Daniel Balch,
William Brown,
Daniel S. Richardson, *President.***WARD 3.**Isaac Scripture, '44,
William C. Gray, '44,
George Choate, '44,
Hapgood Wright.**WARD 4.**Abner W. Buttrick, '40, '44,
Asa Wetherbee, '44,
Charles H. Wilder, '37, '44,
Josiah Sawtell.**WARD 5.**Nathaniel Wright, Jr., '44,
Amos Hyde,
Edward Sherman,
James Fenno.**WARD 6.**Gilman Gale, '44,
John B. McAlvin, '43,
Samuel Fay, Jr.,
Lorenzo P. Wright.

JOHN G. LOCKE, CLERK.

1846.**Mayor:****JEFFERSON BANCROFT**, '39, '40, * '41, * '42.**Aldermen:**

Henry Smith, * '44, * '45,
 Selwin Bancroft, 44, * '45,
 William C. Gray, '44, '45,
 Joseph Butterfield,

John C. Dalton, '45,
 D. Knapp, '39, * '45, resigned July,
 Isaac Cooper, '41, elected August.

THOMAS ORDWAY, CITY CLERK.**Common Council:****WARD 1.**

Gilman N. Nichols, '39, '45,
 Danforth P. Brigham, '45,
 Willard C. Welch, '45,
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45,
 William Brown, '45,
 Daniel S. Richardson, † '45, *President*,
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45,
 Isaac Farrington,
 Joel Powers,
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45,
 Solon Stevens,
 David J. Moody,
 William Fletcher.

WARD 5.

Amos Hyde, '45,
 Horatio G. F. Corliss, '44,
 Jonathan Bowers, '36,
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45,
 John L. Fitts, '39, '40,
 Lewis Packard,
 Columbus J. Hubbard.

JOHN G. LOCKE, CLERK.**1847.****Mayor:****JEFFERSON BANCROFT**, '39, '40, * '41, * '42, † '46.**Aldermen:**

George Bragdon,
 Joseph Butterfield, * '46,
 Linus Child,
 James Fenno, '45,

Elisha Huntington, † '37, † '38
 † '39, † '40, † '41, † '44, † '45,
 Sewall G. Mack, '43, '44,
 Stephen Mansur, '36, '39, * '40,
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, CITY CLERK.**Common Council:****WARD 1.**

William Conihe,
 James C. Crombie,
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41,
 Hannibal Powers,
 William Newman,
 Otis L. Allen.

WARD 3.

Joel Powers, '46,
 Franklin Mead, '46,
 Isaac Farrington, '46,
 Samuel G. Davis.

WARD 4.

Joel Adams, *President*,
 Horatio Fletcher,
 Solon Stevens, '46,
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler,
 Edward C. Johnson,
 Elihu Gates,
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth,
 Isaac N. Parker,
 John R. Southwick,
 Isaiah Morse.

JOHN G. LOCKE, CLERK.

1848.**Mayor:**

JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46, †47

Aldermen:David Dana, '36, '38,
Erastus Douglass, '36, '38,
Jacob Graves, resigned in June,
William Newman, '47,Gilman N. Nichols, '39, '45, '46,
Daniel S. Richardson, †'45, †'46,
Josiah Sawtell, '45, '46, *'47,
O. M. Whipple, *'36, *'38, *'39, *'45

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**William Conihe, '47,
James C. Crombie, '47,
Jesse Huse, '47,
Gerry Wilson.**WARD 2.**Otis L. Allen, '47,
William H. Flagg,
John Nesmith, '39, '40, '42,
Hannibal Powers, '47.**WARD 3.**Alfred Gilman, '43,
Thomas Hopkinson, '38, '39, *President*,
Ransom Reed,
Nathaniel Critchett, '41, '42.**WARD 4.**John Avery,
Otis Allen, '43,
Abiel Rolfe,
Horace Howard, '36, '38.**WARD 5.**Ignatius Tyler, '47,
Elihu Gates, '47,
Edward C. Johnson, '47,
Charles M. Short, '46, '47.**WARD 6.**Thomas Wentworth, '47,
Isaac N. Parker, '47,
Jeremiah M. Currier,
Horace Parmenter.

JOHN G. LOCKE, CLERK.

1849.**Mayor:**

JOSIAH B. FRENCH, '36, '42.

Aldermen:James B. Francis,
Cyril French, '36, *'41, *'42, *'43,
James H. B. Ayer,
Daniel D. Crombie,Daniel Carter,
George Brownell, '36, '37, *'38,
Artemas L. Brooks,
Joseph Bedlow, *'40.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Jesse Huse, '47, '48, resigned Feb.,
William A. Richardson, elected March,
Gerry Wilson, '48,
John W. Smith,
Alfred S. Saunders.**WARD 2.**William H. Flagg, '48,
Ivers Taylor,
Isaac S. Morse, resigned,
Ambrose Lawrence.**WARD 3.**Alfred Gilman, '43, '48,
Elisha Davis,
James Dinsmoor,
Andrew C. Wheelock.**WARD 4.**Nathaniel B. Favor,
Galeb Crosby,
Ezekiel Wright,
Waldo A. Fisher.**WARD 5.**Maynard Bragg,
Joshua Decatur,
Abram T. Melvin,
W. W. Morse.**WARD 6.**William Lamson, Jr.,
Jeremiah M. Currier, '48,
George S. Wright,
John Aiken, *'37, *'41, *President*.

GEORGE A. BUTTERFIELD, CLERK.

1850.**Mayor:**

JOSIAH B. FRENCH, '36, '42, † '49.

Aldermen:

James H. B. Ayer, * '49,
 Joseph Bedlow, * '40, * '49,
 Daniel D. Crombie, * '49,
 James B. Francis, * '49,

Philip Hardy,
 John Mixer, '36, '38,
 Josiah G. Peabody,
 James Townsend, '42.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

John W. Smith, '49,
 Daniel R. Kimball,
 James Watson,
 Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, *President*.
 George Gardner,
 Samuel Lawrence, 2d,
 Samuel J. Varney.

WARD 3.

Jonathan Page,
 John Tripp,
 Fordyce Coburn,
 Joshua Merrill.

WARD 4.

Abner W. Buttrick, '40, '44, '45,
 Caleb Crosby, '49,
 Benjamin Goddard,
 Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot,
 William Fiske, '37, '38, '41,
 George W. Worthen,
 Maynard Bragg, '49.

WARD 6.

Albert Mallard,
 Stephen P. Sargent,
 George S. Wright, '49,
 Wm. Lamson, Jr., '49, res'd May.

GEO. A. BUTTERFIELD, CLERK, res'd May. WM. LAMSON, JR, elc'td May

1851.**Mayor:**

JAMES H. B. AYER, * '49, * '50.

Aldermen:

William Fiske, '37, '38, '41, '50,
 Ambrose Lawrence, '49,
 James Townsend, '42, * '50,
 Philip Hardy, * '50,

William North, '37,
 Abiel Rolfe, '48,
 Lucius A. Cutler,
 Joshua Converse, '40.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

James Watson, '50,
 Jonathan Smothers, '50,
 Charles B. Coburn, '44,
 Stephen Moar.

WARD 2.

Linus Child, * '47,
 George Gardner, '50, *President*,
 Samuel J. Varney, '50,
 Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50,
 William Twichell,
 Darius C. Brown,
 Benjamin C. Sargent.

WARD 4.

Benjamin Goddard, '50,
 Richard Dennis,
 Holland Streeter,
 Solomon D. Emerson.

WARD 5.

George P. Elliot, '50,
 Edward Fifield,
 John N. Ford,
 Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50.
 George W. Jones, died Sept.,
 Stephen P. Sargent, '50,
 Albert Mallard, '50.

WILLIAM LAMSON, JR., CLERK.

1852.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, '†40, '†41, †'44, †45, *'47

Aldermen:Joseph Bedlow, *'40, *'49, *'50,
Joseph M. Bullens,
Samuel Burbank, '40, '41,
Joseph B. V. Coburn,Wm. Fiske, '37, '38, '41, '50, *'51,
William North, '37, *'51,
Alpha Stevens,
Samuel J. Varney, '50, '51.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Rufus Rogers,
John C. Smith,
Jeremiah Clark,
Paul Hill.**WARD 2.**Paul Perkins,
Milton Bonney,
William Hovey,
Zachariah B. Caverly, '51.**WARD 3.**Darius C. Brown, '51,
William Twichell, '51,
Benjamin C. Sargeant, '51, *President*,
Michael B. Caswell.**WARD 4.**Holland Streeter, '51,
Elbridge Livingston,
Abram French,
Willard Minot.**WARD 5.**Edward Fifield, '51,
Phineas Whiting, '41,
George W. Patterson,
Jonathan Kendall, '42, '44.**WARD 6.**Leonard W. Jaquith,
Seth Pooler,
Caleb G. Weaver,
William C. Parker.

WILLIAM LAMSON, JR., CLERK.

1853.**Mayor:**

SEWALL G. MACK, '43, '44, *'47.

Aldermen:Elisha Huntington, †'37, †'38, †'39,
†'40, †'41, †'44, †'45, *'47, †'52,
Samuel K. Hutchinson,
Stephen Mansur, '36, '39, *'40, *'47,
Joseph B. V. Coburn, *'52,Ira Spalding, '42, '43,
Joseph M. Bullens, *'52,
Alpha Stevens, *'52,
Joseph White.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Rufus Rogers, '52,
John C. Smith, '52,
Marcus A. Thomas,
James Cook, '36.**WARD 2.**Paul Perkins, '52,
Milton Bonney, '52,
George G. Bumpus,
George W. Stanley.**WARD 3.**Michael B. Caswell, '52,
Calvin Philbrick,
Leonard Brown,
Henry H. Wilder.**WARD 4.**Abram French, '52,
Henry C. Howe,
Joseph S. Grush,
Samuel K. Pickering.**WARD 5.**George W. Patterson, '52,
Wm. A. Richardson, '49, *President*,
Patrick Conlan,
Jonathan Bowers.**WARD 6.**Caleb G. Weaver, '52,
William C. Parker, '52,
George F. Woods,
C. F. Blanchard.

WILLIAM LAMSOM, JR. CLERK.

1854.**Mayor:**

SEWALL G. MACK, '43, '44, * '47, † '53.

Aldermen:

Elisha Huntington. † '37, †38, † '39, † '40,
 † '41, † '44, † '45, * '47, † '52, * '53,
 J. B. V. Coburn, * '52, * '53, res'd Jan.,
 Samuel K. Hutchinson, * '53,
 Ira Spalding, '42, '43, * '53,

Joseph White, * '53,
 Horatio Fletcher, '47,
 C. F. Blahchard, '53,
 Charles Sperry.

WILLIAM LAMSON, JR. CITY CLERK.

Common Council.**WARD 1.**

John C. Smith, '52, '53,
 Paul Hill, '52,
 Marcus A. Thomas, '53,
 Thomas Lennon.

WARD 2.

George W. Stanley, '53,
 William H. Gage,
 Amos A. Taylor,
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53,
 Leonard Brown, '53, declined,
 Darius C. Brown, '51, '52, elected,
 Henry H. Wilder, '53,
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53,
 Joseph S. Grush, '53,
 Samuel K. Pickering, '53,
 Hubbard Wilson.

WARD 5.

William A. Richardson, 49, † '53,
President,
 Jonathan Bowers, '53,
 Patrick Conlan, '53,
 John C. Woodward.

WARD 6.

George F. Woods, '53,
 Charles S. Eastman,
 Levi H. Straw,
 William P. Webster.

LEONARD BROWN, CLERK.

1855.**Mayor.**

AMBROSE LAWRENCE, '49, '51.

Aldermen:

Wm. Fiske, '37, '38, '41, '50, * '51, * '52.
 Artemas L. Brooks, * '49,
 Daniel Woodward,
 Lorenzo G. Howe,

Andrew T. Nute,
 Abner Frost,
 William S. Johnston,
 Shadrach R. Brackett.

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Maynard Bragg, '49, '50,
 Aaron B. Young,
 Augustus B. Roby,
 George L. Harris.

WARD 2.

William G. Morse,
 George K. Paul,
 Mark H. Cook,
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, *President,*
 Daniel Hurd,
 Theodore Warren,
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels,
 John Bennett,
 Alanson Folsom,
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54,
 Stephen Bartlett,
 Jonathan Johnson,
 Oliver P. Rand.

WARD 6.

Livi H. Straw, '54,
 William T. Whitten,
 Lucien P. Stacy,
 James M. Moore.

LEONARD BROWN, CLERK.

1856.**Mayor:**

ELISHA HUNTINGTON, † '37, ‡ '38, † '39, † '40, † '41, † '44,
† '45, * '47, † '52, * '53, * '54.

Aldermen:

Edward Tuck,
Samuel Burbank, '40, '41, * '52,
Charles B. Coburn, '44,
William P. Webster, '54,
Hapgood Wright, '45, '46,

Charles, H. Wilder, '37, '44, '45,
O. J. Conant, resigned in March,
James H. Rand,
Jonathan Johnson, elected in June,

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Enos O. Kingsley,
Abiel Pevey,
David M. Collins,
Marshall E. Thompson.

WARD 2.

Isaac Hinckley,
Seth Gage,
Peter Flanders, Jr.,
Leonard F. Jewell.

WARD 3.

David Rogers,
Benj. C. Sargeant, '51, † '52, *President*,
Henry H. Carroll,
Peter Powers.

WARD 4.

Francis N. Nourse, '55,
Alden B. Buttrick,
Holland Streeter, '51, '52,
James Sands.

WARD 5.

Frederick Holton,
Isaac Place,
Albert Wheeler,
Abiel Rolfe, '48, * '51.

WARD 6.

Eliphalet Hills,
Jonathan P. Folsom,
James K. Fellows, '37,
John K. Chase.

JAMES J. MAGUIRE, CLERK.

1857.**Mayor:**

STEPHEN MANSUR, '36, '39, * '40, * '47, * '53.

Aldermen:

Andrew T. Nute, * '55,
John C. Woodward, '54, '55,
Jonathan Smothers, '50, '51,
Samuel W. Stickney,

John B. Tuttle,
Francis H. Nourse, '55, '56,
Jonathan Johnson, '55, * '56,
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Abiel Pevey,
Stephen T. Stanley,
Charles A. Welch,
George F. Scribner.

WARD 2.

William G. Morse, '55,
William D. Vinall,
Temple Tebbets,
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, † '52, † '56,
David Rogers, '56,
Henry H. Carroll, '56,
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50,
John F. Howe,
John C. Jepson,
Alanson Nichols.

WARD 5.

Frederick Holton, '56, *President*,
William H. Wiggin,
William Goodale,
Charles Hubbard.

WARD 6.

Erastus Boyden,
Jonathan Kimball,
Robert J. Garrett,
William Nichols.

HENRY A. LORD, CLERK.

1858.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41,
†'44, †'45, *'47, *'52, *'53, *'54, †'56.

Aldermen:

Sewall G. Mack, '43, '44, *'47, †'53, †'54,
Samuel W. Stickney, *'57,
Abiel Pevey, '56, '57,
Jeremiah P. Jewett, '42,

Joseph M. Dodge, '37,
Harvey Silver,
Albert Wheeler, '56,
Edwin A. Alger.

JOHN H. MCALVIN, CITY CLERK.

Common Council:**WARD 1.**

Charles Wilkins,
John M. Maynard,
John E. Webb,
William Barnard.

WARD 2.

Edward Tuck, *'56,
William P. Webster, '54, *'56,
Andrew Blood,
William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
'57, *President*,
Hanover Dickey,
Joseph A. Brabrook,
Benjamin S. Butterworth.

WARD 4.

Enoch P. Young,
Zephaniah Goward,
Jesse Blake,
John F. Howe, '57.

WARD 5.

Willard Dudley,
Samuel T. Manahan,
Isaac Page,
John Avery, 2d.

WARD 6.

William Nichols, '57,
Alpha B. Farr, resigned in Jan.,
Leonard Brown, '53, '54, elec'd Feb.
Erastus Boyden, '57,
James H. Rand, *'56, resign'd May,
Eben'r Burgess, elected, in June.

GEORGE GARDNER, CLERK.

1859.**Mayor:**

JAMES COOK, '36 '53.

Aldermen:

Lorenzo G. Howe, *'55,
Samuel J. Varney, '50, '51, *'52,
Paul Hill, '52, '54,
Ambrose Lawrence, '49, '51, †'55, re-
signed in April,
Darius C. Brown, '51, '52,

John F. Howe, '57, '58,
Joshua Converse, '40, *'51, re'd Apr.
J. P. Folsom, '56, resign'd in April,
Edward Tuck, *'56, '58, elect'd May,
Sam'l T. Manahan, '58, elec'd May,
Jonathan Ladd, elected in May.

JOHN H. MCALVIN, CITY CLERK.

Common Council:**WARD 1.**

John E. Webb, '58,
Charles Wilkins, '58,
William Barnard, '58,
William D. Blanchard.

WARD 2.

W. P. Webster, '54, *'56, '58, *President*,
William F. Salmon, '58,
James M. Howe, '57,
David Nichols.

WARD 3.

George Hobson,
Asahel D. Puffer,
John Willoughby,
Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57,
Jesse Blake, '58,
George W. Partridge,
George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46,
Luther B. Morse,
Josiah G. Peabody, *'50,
William Goodale, '57.

WARD 6.

Charles A. Stott,
Levi Sprague,
Ebenezer Burgess, '58,
Leonard Brown, '53, '54, '58.

GEORGE GARDNER, CLERK.

1860.**Mayor:**

BENJAMIN C. SARGEANT, '51, ‡ '52, ‡ '56, '57, ‡ '58.

Aldermen:

Edward F. Watson, '40, '41, * '44, * '45.
 Lorenzo G. Howe, * '55, * '59,
 James Watson, '50, '51,
 William G. Morse, '55, '57,

Henry H. Wilder, '53, '54,
 Abner Frost, * '55,
 Samuel T. Manahan, '58, * '59,
 William S. Gardner.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Benjamin S. Ireson,
 Enoch Quimby,
 John P. Slocum,
 Amos H. Foster.

WARD 2.

Henry P. Clough,
 Alfred S. Saunders, '49,
 Wm. F. Salmon, '58, '59, *President*,
 Joseph L. Sargent.

WARD 3.

George Hobson, '59,
 Josiah B. Fielding,
 Henry P. Perkins,
 Hocum Hosford.

WARD 4.

George W. Partridge, '59,
 George W. Young, '59,
 Morrill M. Bohonan,
 Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, * '50, '59,
 Sullivan L. Ward,
 George F. Morey,
 William H. Lamson.

WARD 6.

William Nichols, '57, '58.
 Samuel T. Lancaster,
 Charles A. Stott, '59,
 Foster Nowell.

GEORGE GARDNER, CLERK.

1861.**Mayor:**

BENJAMIN C. SARGEANT, '51, ‡ '52, ‡ '56, '57, ‡ '58, † '60.

Aldermen:

Samuel T. Manahan, '58, * '59, * '60,
 Jonathan P. Folsom, '56, * '59,
 James Watson, '50, '51, * '60,
 William G. Morse, '55, '57, * '60,
 Hocum Hosford, '60,

Aldis L. Waite,
 David Whitney, declined acceptance,
 Sager Ashworth, elected in May,
 William S. Gardner, * '60.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Frank E. Jewett,
 M. Gilbert Perkins,
 Jacob Baron,
 William D. Blanchard, '59,

WARD 2.

Alfred S. Saunders, '49, '60,
 Joseph L. Sargent, '60,
 Henry P. Clough, '60,
 Henry S. Orange.

WARD 3.

William L. North, *President*,
 George W. Norris,
 Henry P. Perkins, '60,
 James G. Morrison.

WARD 4.

Joseph Cater,
 Joseph B. Keyes,
 Morrill M. Bohonan, '60,
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60,
 Samuel Beck,
 William H. Parker,
 George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60.
 Foster Nowell, '60,
 Elon A. Sanborn,
 George E. Dana.

GEORGE GARDNER, CLERK.

1862.**Mayor:**

HOCUM HOSFORD, '60, *'61.

Aldermen:

Mertoun C. Bryant,
 Edwin A. Alger, *'58,
 James B. Francis, *'49, *'50,
 William A. Burke,

Isaac F. Scripture
 Aldis L. Waite, *'61,
 Albert Wheeler, '56, *'58,
 Jona. P. Folsom, '56, *'59, *'61.

JOHN H. McALVIN, CITY CLERK.

Common Council.

WARD 1.

Amos D. Wright,
 Frank E. Jewett, '61,
 Horatio G. Burgess,
 Charles F. Hard.

WARD 2.

Benedict O. Carpenter,
 William T. McNeill,
 Lorenzo G. Howe, *'55, *'58, *'60,
 Henry S. Orange, '61.

WARD 3.

George W. Norris, '61,
 Edmund D. Fletcher,
 Everett W. French,
 John Quina.

WARD 4.

Joseph B. Keyes, '61,
 George Runels,
 John Pettingell,
 Hubbard Wilson, '54.

WARD 5.

Rollin C. Downs,
 Albert Mallard, '50, '51,
 Edward Fifield, '51, '52,
 Cleveland J. Cheney.

WARD 6.

Geo. F. Richardson, *President*,
 Albion J. Dudley,
 Elon A. Sanborn, '61,
 Frederick Frye.

GEORGE GARDNER, CLERK.

1863.**Mayor.**

HOCUM HOSFORD, '60, *'61, †'62.

Aldermen:

James B. Francis, *'49, *'50, *'62,
 Edwin A. Alger, *'58, *'62,
 Abiel Pevey, '56, '57, *'58,
 William A. Burke, *'62,

Isaac F. Scripture, *'62,
 Otis Allen, '43, '48,
 Albert Wheeler, '56, *'58, *'62,
 William Nichols, '57, '58, '60.

JOHN H. McALVIN, CITY CLERK.

Common Council:

WARD 1.

Charles F. Hard, '62,
 Amos D. Wright, '62,
 John Cosgrove,
 William A. Wright.

WARD 2.

George F. Sawtell,
 Henry S. Orange, '61, '62,
 Hugh McEvoy,
 Nathaniel Stearns.

WARD 3.

Everett W. French, '62,
 Fordyce Coburn, '50, '51,
 Edmund D. Fletcher, '62,
 John Quinn, '62.

WARD 4.

Atwell F. Wright,
 Josiah Gates,
 William Stafford,
 John McCann.

WARD 5.

James C. Ayer,
 Charles W. Saunders,
 Cyrus H. Latham,
 John E. Downs.

WARD 6.

Geo. F. Richardson, †'62, *President*,
 Albion J. Dudley, '62,
 Benedict O. Carpenter, '62,
 Frederick Frye, '62.

GEORGE GARDNER, CLERK.

1864.**Mayor:**

HOCUM HOSFORD, '60, *'61, †'62, †'63.

Aldermen:

William S. Southworth,
James B. Francis, *'49, *'50, *'62, *'63,
Dana B. Gove,
William T. McNeill, '62,

George W. Norris, '61, '62,
George Runels, *'62,
Cyrus H. Latham, '63,
George F. Richardson, †'62, †'63.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD-1.**

Alden B. Watson,
Lewis L. Perrin,
Frederick S. Tukey,
John Cosgrove, '63.

WARD 2.

George Ripley, *President*,
Andrew F. Jewett,
Artemas S. Young,
Hoyt W. Hilton.

WARD 3.

Samuel N. Wood,
Charles W. Dodge,
Joseph S. Pollard,
James G. Morrison, '61,

WARD 4.

Atwell F. Wright, '63,
Daniel Churchill,
William W. Sherman.
Francis Jewett.

WARD 5.

John E. Downs, '63,
Thos. G. Gerrish, res'd June 14,
Charles Hubbard, '57,
Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59,
Tobias L. P. Lamson,
Addison Putnam,
Albion J. Dudley, '62, '63.

GEORGE GARDNER, CLERK.

1865.**Mayor:**

JOSIAH G. PEABODY, *'50, '59, '60.

Aldermen:

Edw'd F. Watson '40, '41, *'44, *'45, *'60,
George W. Norris, '61, '62, *'64,
Dana B. Gove, *'64,
William T. McNeill, '62, *'64,

Henry H. Wilder, '53, '54, *'60,
Josiah Gates, '63,
Cyrus H. Latham, '63, *'64,
William Brown, '45, '46.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Alden B. Watson, '64,
Lewis L. Perrin, '64,
George N. Osgood,
John R. Southwick, '47.

WARD 2.

George Ripley, †'64, *President*,
Andrew F. Jewett, '64,
Julian V. Keyes,
Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64,
Charles W. Dodge, '64,
Edward C. Rice,
Frederick T. North.

WARD 4.

Francis Jewett, '64,
Benjamin Walker,
Benjamin L. Googins,
John Pearson.

WARD 5.

Charles Hubbard, '57, '64,
James Kent,
Simcon D. Osterhoudt,
James Foster.

WARD 6.

Tobias L. P. Lamson, '64,
Luke C. Dodge,
Gustavus A. Gerry,
James M. Moore, '55.

GEORGE GARDNER, CLERK.

1866.**Mayor:****JOSIAH G. PEABODY**, * '50, '59, '60, † '65.**Aldermen:**

Samuel A. Brown,
 Albert B. Plimpton,
 John R. Southwick, '47, '65,
 Joseph L. Sargent, '60, '61,

Charles W. Dodge, '64, '65,
 Josiah Gates, '63, * '65,
 Henry M. Hooke,
 Albion J. Dudley, '62, '63, '64.

JOHN H. MCALVIN, CITY CLERK.**Common Council:****WARD 1.**

William A. Hodge,
 William A. Wright, '63,
 Jacob Baron, '61,
 Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65,
 George H. Whitmore,
 Julian V. Keyes, '65,
 Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65,
 Frederick T. North, '65,
 James N. Pinkham,
 Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65,
 Alfred Scott,
 Thomas F. Burgess,
 Benjamin Walker, '65.

WARD 5.

Robert H. Butcher,
 John T. Lee,
 George L. Huntoon,
 Jonathan Johnson, '55, * '56, * '57.

WARD 6.

Gustavus A. Gerry, '65, *President*,
 Luke C. Dodge, '65,
 Charles A. Kimball,
 Alfred H. Chase.

GEORGE GARDNER, CLERK.**1867.****Mayor:****GEORGE F. RICHARDSON**, ‡ '62, ‡ '63, * '64.**Aldermen:**

Charles B. Coburn, '44, '51, * '56,
 Hocum Hosford, '60, * '61, † '62, † '63, † '64,
 John R. Southwick, '47, '65, * '66,
 Joseph L. Sargent, '60, '61, * '66,
 Edward C. Rice, '65, '66,

Abner W. Buttrick, '40, '44, '45, '50;
 died June 29, '67,
 Wm. E. Livingston, el. Sept. 9, '67,
 Wm. H. Parker, '61,
 Albion J. Dudley, '62, '63, '64, * '66.

JOHN H. MCALVIN, CITY CLERK.**Common Council:****WARD 1.**

John Shepard,
 Calvin Sawtell,
 Foster Wilson,
 M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, ‡ '66, *President*,
 Ruel J. Walker,
 William Dobbins,
 Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, * '59, * '61, * '62,
 Frederick T. North, '65, '66,
 Samuel D. Prescott,
 Nathan M. Wright.

WARD 4.

John B. Hunt,
 John Q. A. Hubbard,
 Alfred Scott, '66,
 Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66,
 George S. Cheney,
 James Foster, '65,
 John T. Lee, '66,

WARD 6.

Alfred H. Chase, '66,
 James Lawton,
 John N. Peirce, Jr.,
 Foster Nowell, '60, '61, resigned.
 May 14, '67,
 Wm. Kittredge, elected Sept. 9, '67.

GEORGE GARDNER CLERK.

1868.**Mayor:****GEORGE F. RICHARDSON**, ‡ '62, ‡ '63, * '64, † '67.**Aldermen:**

Charles B. Coburn, '44, '51, * '56, * '67,
 Francis Jewett, '64, '65,
 John M. Pevey, resigned in July,
 Charles L. Hildreth, elected in Sept.,
 Silas Tyler, Jr., '67,

Edward C. Rice, '65, '66, * '67,
 William E. Livingston, * '67,
 Frederick Frye, '62, '63,
 Albion J. Dudley, '62, '63, '64, * '66,
 † '67.

JOHN H. MCALVIN, CITY CLERK.**Common Council:****WARD 1.**

Calvin Sawtell, '67,
 John Shepard, '67,
 John F. Merrill,
 Frederick T. Greenhalge.

WARD 2.

Francis D. Munn,
 Joseph A. Patten, '55,
 Ruel J. Walker, '67,
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger,
 Samuel D. Prescott, '67,
 William Walker,
 Albert A. Haggett.

WARD 4.

William H. Anderson,
 John Q. A. Hubbard, '67,
 Charles T. Crane,
 John B. Hunt, '67,

WARD 5.

Edwin Lamson,
 George S. Cheney, '67,
 William Kelley,
 Ethan N. Spencer.

WARD 6.

John N. Peirce, Jr., '67,
 James Lawton, '67,
 Francis Brown,
 Alfred H. Chase, '66, '67, *President*.

GEORGE GARDNER, CLERK.**1869.****Mayor.****JONATHAN P. FOLSOM**, '56, * '59, * '61, * '62, '67.**Aldermen:**

Francis Jewett, '64, '65, * '68,
 Henry H. Wilder, '53, '54, * '60, * '65,
 Charles L. Hildreth, * '68,
 Cyrus H. Latham, '63, * '64, * '65,

Hapgood Wright, '45, '46, * '56,
 John Q. A. Hubbard, '67, '68,
 George S. Cheney, '67, '68,
 Charles A. Stott, '59, '60.

JOHN H. MCALVIN, CITY CLERK. Resigned March 15, 1869,**SAMUEL A. MCPHETRES**, CITY CLERK. Elected March 15, 1869.**Common Council:****WARD 1.**

Frederick T. Greenhalge, '68,
 John H. Durgin, Jr.,
 Patrick Keyes,
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68,
 Phineas Jones,
 Francis D. Munn, '68,
 Amos Sanborn.

WARD 3.

George W. Badger, '68,
 Albert A. Haggett, '68,
 William Walker, '68,
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, *President*,
 Simeon G. Lyford,
 Henry P. Carter,
 Epaphras A. Hill.

WARD 5.

William Kelley, '68,
 Willard A. Brown,
 William O. Fiske,
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68,
 Alpha B. Farr, '58,
 Lucian P. Stacy, '55,
 William Kittredge, '67.

GEORGE GARDNER, CLERK.

1870.**Mayor:**

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67, †'69.

Aldermen:Edward F. Sherman,
Frank F. Battles,
Charles L. Hildreth, *'68, *'69,
Amos B. French,Hapgood Wright, '45, '46, *'56, *'69,
John Q. A. Hubbard, '67, '68, *'69,
Addison Putnam, '64,
Charles A. Stott, '59, '60, *'69.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**John H. Durgin, Jr., '69,
Benjamin Patch, '69,
Patrick Keyes, '69,
Samuel G. Ladd.**WARD 2.**Phineas Jones, '69,
John L. Moulton,
Patrick Cummiskey,
David G. Skillings,**WARD 3.**Albert A. Haggett, '68, '69, *President*,
Henry P. Perkins, '60, '61,
Hocum Hosford, '60, *'61, †'62, †'63,
†'64, *'67, declined,
Matthew Donovan,
John L. Meadowcroft, elected Jan. 24.**WARD 4.**Epaphras A. Hill, '69,
Henry P. Carter, '69,
Simeon G. Lyford, '69,
Michael Corbett.**WARD 5.**William O. Fiske, '69,
Willard A. Brown, '69,
James D. Hartwell,
Jeremiah Crowley.**WARD 6.**Alpha B. Farr, '58, '69,
William Kittredge, '67, '69,
Lucian P. Stacy, '55, '69,
John Stott.

GEORGE GARDNER, CLERK.

1871.**Mayor:**

EDWARD F. SHERMAN, *'70.

Aldermen:Frank F. Battles, *'70,
William F. Salmon, '58, '59, †'60,
John W. Smith, '49, '50,
Amos B. French, *'70,Albert A. Haggett, '68, '69, †'70,
Henry C. Howe, '53, '54,
Frederick Ayer,
Addison Putnam, '64, *'70.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council.**WARD 1.**John H. Durgin, Jr., '69, '70,
Samuel G. Ladd, '70,
Francis N. J. Haviland,
Joel Knapp.**WARD 2.**William Dobbins, '67,
John L. Moulton, '70,
Patrick Cummiskey, '70,
Amos A. Blanchard.**WARD 3.**Henry P. Perkins, '60, '61, '70, *President*,
John L. Meadowcroft, '70,
Horace Ela,
Julius C. Jockow.**WARD 4.**Benj. Walker, '65, '66,
Michael Corbett, '70,
Francis H. Chandler,
Charles T. Goddard.**WARD 5.**Jeremiah Crowley, '70,
Crawford Burnham,
Henry C. Church,
Patrick Lynch,**WARD 6.**Leonard Brown, '53, '54, '58, '59,
John Stott, '70,
Abel T. Atherton,
Nathaniel C. Sanborn.

GEORGE GARDNER CLERK.

1872.**Mayor:****JOSIAH G. PEABODY**, * '50, '59, '60, † '65, † '66.**Aldermen:**

Henry C. Howe, '53, '54, * '71,	Frederick T. North, '65, '66, '67,
Alexander G. Cumnock,	Benj. Walker, '65, '66, '71,
Benjamin Patch, '69, '70,	William Kelley, '68, '69,
Gustavus A. Gerry, '65, † '66, † '67,	Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**John E. Webb, '58, '59,
Alonzo F. Caswell,
Southwell Farrington,
True P. Jordan.**WARD 2.**Leonard Brown, '53, '54, '58, '59, '71,
Amos A. Blanchard, '71,
Joseph S. Brown,
Earl A. Thissell.**WARD 3.**Henry P. Perkins, '60, '61, '70, † '71,
Horace Ela, '71, [Pres.,
Julius C. Jockow, '71,
Charles F. Tilton.**WARD 4.**Nathaniel P. Favor,
Nathan W. Frye,
Henry A. Lord,
Alonzo L. Russell.**WARD 5.**Crawford Burnham, '71,
Charles F. Belden,
Luther J. Eames,
William Shepard.**WARD 6.**Abel T. Atherton, '71,
Nathaniel C. Sanborn, '71,
Samuel M. Chase,
Julian Talbot.

GEORGE GARDNER, CLERK.

1873.**Mayor:****FRANCIS JEWETT**, '64, '65, * '68, * '69.**Aldermen:**

Jonathan P. Folsom, '56, * '59, * '61,	Charles A. F. Swan, elected Jan. 14,
* '62, '67, † '69, † '70,	Jacob H. Sawyer,
George Runels, '62, * '64,	Jeremiah Crowley, '70, '71,
Edward Tuck, * '56, '58, * '59, declined,	Alpha B. Farr, '58, '69, '70, * '72,
Isaac Farrington, '46, '47, declined.	George Stevens.
William Dobbins, '67, '71, elec. Jan. 14,	

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**John E. Webb, '58, '59, '72,
Alonzo F. Caswell, '72,
Frank Brady,
Stephen J. Smiley.**WARD 2.**Joseph S. Brown, '72.
Earl A. Thissell, '72,
Daniel Stickney,
Edward P. Woods.**WARD 3.**

[Pres.]

Albert A. Haggett, '68, '69, † '70, * '71,
Charles F. Tilton, '72, resig'd March 1,
William Bass,
James Owens,
James A. Loughlin, elected April 8.**WARD 4.**Atwell F. Wright, '63, '64,
Nathaniel P. Favor, '72,
Nathan W. Frye, '72,
Henry A. Lord, '72.**WARD 5.**Robert H. Butcher, '66,
Charles F. Belden, '72,
Jared P. Maxfield,
George Smith.**WARD 6.**Nathaniel C. Sanborn, '71, '72,
Samuel M. Chase, '72,
George W. S. Hurd,
Artemas S. Tyler.

GEORGE GARDNER, CLERK.

1874.

Mayor:

FRANCIS JEWETT, '64, '65, * '68, * '69, † '73.

Aldermen:

Jeremiah Crowley, '70, '71, * '73,
 Benj. Walker, '65, '66, '71, * '72,
 Alonzo F. Caswell, '72, '73,
 Joseph S. Brown, '72, '73,

Jonathan Kendall, '42, '44, '52,
 George L. Huntoon, '66, '67,
 Nathaniel C. Sanborn, '71, '72, '73,
 George Stevens, * '73.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Charles A. Welch, '57,
 Frank Brady, '73,
 Stephen J. Smiley, '73,
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73,
 Edward P. Woods, '73,
 Charles J. Eastman,
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72,
 James Owens, '73,
 James A. Loughlin, '73,
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71,
 Nathan W. Frye, '72, '73, *President*,
 Jacob H. Sawyer, * '73,
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73,
 John B. Lyford,
 Samuel P. Marin,
 John Scott.

WARD 6.

George W. S. Hurd, '73,
 Joel A. Abbott,
 Thomas Carolin,
 Jason Fuller.

GEORGE GARDNER, CLERK, died May 29.

DAVID CHASE, CLERK, elected June 4.

1875.

Mayor:

FRANCIS JEWETT, '64, '65, * '68, * '69, † '73, † '74.

Aldermen:

Benj. Walker, '65, '66, '71, * '72, * '74,
 Jacob Rogers,
 John A. Goodwin,
 Joseph S. Brown, '72, '73, * '74,

Hapgood Wright, '45, '46, * '56, * '69.
 James Owens, '73, '74,
 Alden B. Richardson,
 Samuel A. Chase.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Charles A. Welch, '57, '74,
 Charles H. Harvey, '74,
 John F. Howard,
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73,
 Edward E. Reed, '74,
 William A. Read,
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, † '70, * '71,
 George W. Tilton, '74, [† '73, *Pres.*
 Charles Cowley,
 Thomas R. Garity.

WARD 4.

Josiah Butler,
 Francis Carll,
 Edward P. Dennis,
 Edward Stockman

WARD 5.

James D. Hartwell, '70,
 John B. Lyford, '74,
 Orford R. Blood,
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74,
 Thomas Carolin, '74,
 Jason Fuller, '74,
 Albert D. Wright.

DAVID CHASE, CLERK.

1876.**Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70.

Aldermen:

Jacob Rogers, *'75,	Henry A. Hildreth,
John A. Goodwin, *'75, [† '73, ‡ '75,	George E. Stanley,
Albert A. Haggett, '68, '69, ‡ '70, *'71,	Francis Carll, '75,
Charles F. Belden, '72, '73,	William H. Wiggin, '57.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**

John W. Welch, '75,
 Lewis Stiles,
 Daniel W. Manning,
 David M. Collins, '56, declined,
 John F. Howard, '75, elected Jan. 11.

WARD 2.

Leavitt R. J. Varnum, '75,
 Charles E. Hallowell,
 Charles Callahan,
 William A. Read, '75.

WARD 3.

Charles Cowley, '75,
 Charles H. Kimball,
 Charles Runels,
 James Howard, died after election,
 William H. Grady, elected Jan. 11.

WARD 4.

Edward Stockman, '75, res. May 23,
 Gardner W. King,
 Stephen H. Jones,
 Charles D. Starbird,
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood, '75,
 John F. Kimball, [*Pres. from* May 23,
 Charles H. Hanson,
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn,
 Benjamin C. Dean, *Pres.*, res. May 23,
 Charles H. Walker,
 John J. Pickman,
 Willis Farrington, elected June 22

DAVID CHASE, CLERK.

1877.**Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70, † '76.

Aldermen:

Jeremiah Crowley, '70, '71, *'73, *'74,	Orford R. Blood, '75, '76, seat vacated,
Horace R. Barker,	Stephen B. Puffer, dec. el. Jan. 2,
George E. Stanley, *'76,	Robert Park,
Charles H. Kimball, '76,	George E. Pinkham, '69.
George P. Walker,	

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Daniel W. Manning, '76,
 Lewis Stiles, '76,
 John Courtney,
 Frank Brady, '73, '74, res. March 27,
 Jared P. Maxfield, '73, '74, elec. May 8.

WARD 2.

Charles E. Hallowell, '76,
 Francis D. Munn, '68, '69,
 Charles H. Robbins,
 Oliver M. Harding.

WARD 3.

William H. Grady, '76,
 Patrick Lynch,
 Simon Kelly,
 George E. Davis.

WARD 4.

Gardner W. King, '76,
 James W. Bennett, '76,
 Irving K. Goodale,
 Orlando Blodgett.

WARD 5.

John F. Kimball, ‡ '76, *President*,
 Charles H. Hanson, '76,
 Peter S. Coburn,
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76,
 John J. Pickman, '76,
 Charles H. Walker, '76,
 Augustus E. Spaulding, d. Jan. 10,
 George S. Cushing, elected Feb. 6.

DAVID CHASE, CLERK.

1878.**Mayor:****JOHN A. G. RICHARDSON.****Aldermen:**

Stephen B. Puffer, * '77,
Robert Park, * '77,
Horace R. Barker, * '77,
George F. Scribner, '57,

George E. Scripture,
Joseph S. Pollard, '64, '65, [* '77,
Jeremiah Crowley, '70, '71, * '73, * '74,
Nathaniel C. Sanborn, '71, '72, '73, * '74.

SAMUEL A. McPHETRES, CITY CLERK.**Common Council:****WARD 1.**

John Courtney, '77,
John J. Mealey,
Joseph M. Ambrose,
Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham,
Edward M. Tucke,
William W. Clark,
Albert W. Monty.

WARD 3.

Simon Kelly, '77,
Edward Cawley,
Henry P. Morris,
Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77,
Orlando Blodgett, '77,
Robert G. Bartlett,
Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77,
Peter S. Coburn, '77,
John F. Kimball, ‡ '76, ‡ '77, *President*,
Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77,
Eli W. Hoyt,
Luke B. Taylor,
Miles F. Brennan, to Jan. 22,
Thomas Nesmith, from Jan. 22.

DAVID CHASE, CLERK,**1879.****Mayor:****JOHN A. G. RICHARDSON, † '78.****Aldermen:**

Horace R. Barker, * '77, * '78,
Charles A. R. Dimon,
Joseph S. Pollard, '64, '65, * '78,
Charles S. Lilley,

George E. Scripture, * '78,
George F. Scribner, '57, * '78,
Charles F. Howe,
Robert Goulding, '77, '78.

SAMUEL A. McPHETRES, CITY CLERK.**Common Council:****WARD 1.**

Joseph M. Ambrose, '78,
John O'Donnell,
James Kelly,
Richard J. Noonan.

WARD 2.

Albert W. Monty, '78,
Charles H. Richardson,
William K. Chase, res. Nov. 25,
Edwin A. Robinson,
Edward M. Tucke, '78, elect. Dec. 9.

WARD 3.

Edward Cawley, '78,
Henry P. Morris, '78,
William T. Benson,
Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78,
Fred Woodies,
Charles F. Varnum,
Charles E. Farrington.

WARD 5.

Albert W. Burnham,
Ambrose L. Ready,
Joseph M. Wilson,
Edward B. Peirce, *President*,

WARD 6.

Eli W. Hoyt, '78,
Luke B. Taylor, '78,
Major A. Shaw,
Miles F. Brennan, '78.

DAVID CHASE, CLERK.

1880.**Mayor:**

FREDERICK T. GREENHALGE, '68, '69.

Aldermen:

James D. Hartwell, '70, '75,
 Atwill F. Wright, '63, '64,
 Charles H. Richardson,
 Edwin Lamson, '68, '69,

Isaac F. Scripture, * '62, * '63,
 Robert Wood,
 Charles H. Coburn,
 James C. Abbott.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council.**WARD 1.**

James Kelly, '79,
 Richard J. Noonan, '79,
 Thomas J. Flynn,
 Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79,
 Wilbur L. Bates,
 Samuel W. Foster,
 Earl A. Thissell, '72, '73, '75, *Pres.*

WARD 3.

Peter H. Donohoe,
 William T. Benson, '79,
 Patrick A. Rogers, '79,
 Frank Wood.

WARD 4.

Fred Woodies, '79,
 Charles F. Varnum, '79,
 Charles E. Farrington, '79,
 Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79,
 Ambrose L. Ready, '79,
 Samuel Hosmer,
 Edward B. Peirce, † '79.

WARD 6.

Benjamin F. Freeman,
 J. Tyler Stevens,
 Charles C. Hutchinson,
 Henry C. Cooper.

DAVID CHASE, CLERK.

1881.**Mayor:**

FREDERICK T. GREENHALGE, '68, '69, † '80.

Aldermen:

Charles H. Richardson, * '80,
 Isaac F. Scripture, * '62, * '63, * '80,
 Robert Wood, * '80,
 Ambrose L. Ready, '79, '80,

Levi Sprague, '59, '64,
 Julius A. Stiles,
 Samuel D. Butterworth, '78,
 Thomas R. Garity, '75.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Thomas J. Flynn, '80,
 Lawrence Cummings, '80,
 Robert J. Thomas,
 Jeremiah J. Hayes.

WARD 2.

Zachariah D. Hall,
 James M. Howe, '57, '59,
 Hubert M. Potter,
 Moses Gibson.

WARD 3.

Frank Wood, '80,
 Peter H. Donohoe, '80,
 John E. Maguire,
 D. Moody Prescott.

WARD 4.

Julius C. Johnson,
 Stephen C. Davis,
 Edward Garner,
 William N. Osgood.

WARD 5.

Atkinson C. Varnum,
 Samuel Hosmer, '80,
 Samuel P. Marin, '74,
 Albert W. Burnham, '79.

WARD 6.

Charles C. Hutchinson, '80, *Pres't.*,
 Albert G. Thompson,
 Thomas Nesmith, '78,
 Lawrence J. Smith.

DAVID CHASE, CLERK.

1882.**Mayor.****GEORGE RUNELS, '62, *'64.****Aldermen:**

Thomas R. Garity, '75, * '81, *Chair'n.*
 * Charles W. Sleeper,
 George B. Smith,
 William A. Wright, '63, '66,
 David Whitaker,

D. Moody Prescott, '81,
 George S. Cushing, '77, '78,
 John F. Phillips,
 † John Welch.

‡ SAMUEL A. MCPHETRES, CITY CLERK.

§ DAVID W. O'BRIEN, " "

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy.

‡ Died Sept. 29, 1882.

§ Elected Oct. 4, 1882.

Common Council:**WARD 1.**

Robert J. Thomas, '81,
 Jeremiah J. Hayes, '81,
 Dennis J. Crowley,
 John A. Walsh.

WARD 2.

Zachariah D. Hall, '81,
 James M. Howe, '57, '59, '81,
 Moses Gibson, '81,
 James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81,
 John E. Maguire, '81,
 John J. Mead,
 James Grady.

WARD 4.

Julius C. Johnson, '81,
 Stephen C. Davis, '81,
 Edward Garner,
 William N. Osgood, '81, *Pres.*

WARD 5.

Atkinson C. Varnum, '81,
 Albert W. Burnham, '79, '81,
 Artemas B. Woodworth,
 Horace B. Barnes.

WARD 6.

Albert G. Thompson, '81,
 Lawrence J. Smith, '81,
 Thaddeus S. Cobb,
 Miles J. Fletcher.

DAVID CHASE, CLERK.**1883.****Mayor:****JOHN J. DONOVAN.****Aldermen:**

John F. Phillips, * '82, *Chairman,*
 George B. Smith, * '82,
 Robert J. Thomas, '81, '82,
 David Whitaker, * '82.

D. Moody Prescott, '81, * '82.
 Geo. W. Fifield,
 John Welch, * '82,
 Miles J. Fletcher, '82.

DAVID W. O'BRIEN, CITY CLERK.**Common Council:****WARD 1.**

Dennis J. Crowley, '82,
 John J. Hogan,
 James H. Cahill,
 Daniel Murphy,

WARD 2.

Samuel Lawrence, '50,
 Joseph S. Brown, '72, '73, * '74, * '75,
 Albert W. Monty, '78, '79,
 John F. Thissell.

WARD 3.

James Grady, '82,
 John J. Mead, '82,
 Patrick J. Smith,
 Frank J. Donohue.

WARD 4.

James G. Elliott,
 Solomon K. Dexter,
 Alonzo L. Russell, '72,
 Geo. A. Bennett.

WARD 5.

Edward B. Peirce, † '79, '80, *Pres't*
 Artemas B. Woodworth, '82,
 John P. Mahoney,
 Geo. L. Ashworth.

WARD 6.

Lawrence J. Smith, '81, '82,
 Thaddeus S. Cobb, '82,
 J. Frank Page,
 Michael F. Clark.

DAVID CHASE, CLERK.

1884.**Mayor:****JOHN J. DONOVAN, †'83.****Aldermen:**

Robert J. Thomas, '81, '82, *'83, *Ch'n*,
 Miles J. Fletcher, '82, *'83,
 George W. Fifield, '83,
 Thaddeus S. Cobb, '82, '83,
 Edward B. Quinn,

Jeremiah Crowley, '70, '71, *'73,
 *'74, *'77, *'78,
 Peter H. Donohoe, '80, '81,
 Freeman B. Shedd.

DAVID W. O'BRIEN, CITY CLERK.**Common Council:****WARD 1.**

John J. Hogan, '83, *President*,
 James H. Cahill, '83,
 Daniel Murphy, '83,
 James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, *'74, *'75, '83,
 Albert W. Monty, '78, '79, '83,
 Earl A. Thissell, '72, '73, '75, †'80,
 John R. Pike.

WARD 3.

Patrick J. Smith, '83,
 Peter J. Brady,
 Thomas J. Sparks,
 John Nolan.

WARD 4.

James G. Elliott, '83,
 Solomon K. Dexter, '83,
 Alonzo L. Russell, '72, '83,
 George A. Bennett, '83.

WARD 5.

Edward B. Peirce, †'79, '80, †'83,
 George L. Ashworth,
 Joseph M. Wilson, '79,
 James S. Hanson.

WARD 6.

J. Frank Page, '83,
 Michael F. Clark, '83,
 Alfred M. Chadwick,
 Marcellus H. Fletcher.

DAVID CHASE, CLERK.**1885.****Mayor.****EDWARD J. NOYES.****Aldermen:**

John F. Phillips, *'82, *'83, *Chairman*,
 John F. Howe, '57, '58, *'59,
 William D. Brown,
 George E. Stanley, *'76, *'77,

James D. Hartwell, '70, '75, *'80,
 George F. Penniman,
 Oliver E. Cushing,
 James Francis.

SAMUEL M. CHASE, CITY CLERK.**Common Council:****WARD 1.**

Patrick H. Plunkett,
 James H. Morrison, '84,
 Thomas J. Enright,
 Henry F. Keyes.

WARD 2.

George W. Brothers,
 Walter M. Sawyer,
 James R. Fulton,
 Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84,
 Patrick J. Smith, '83, '84,
 John Nolan, '84,
 Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch,
 George A. Roper,
 William A. Lang,
 Frank W. Howe.

WARD 5.

Wilson W. Carey,
 James S. Hanson, '84,
 Henry L. Newhall,
 Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, *Pres't*,
 George R. Richardson,
 Luke B. Taylor, '78, '79,
 William H. White.

DAVID CHASE, CLERK.

1886.

MAYOR:

JAMES C. ABBOTT.

ALDERMEN:

Jeremiah Crowley, '70, '71, *'73, *'74,
 *'77, *'78, *'84, *Chairman*,
 John F. Phillips, *'82, *'83, *'85,
 Stephen B. Puffer, *'77, *'78,
 George E. Stanley, *'76, *'77, *'85,

Daniel Wright,
 Samuel D. Butterworth, *'78, *'81,
 George F. Penniman, *'85,
 James Francis, *'85.

SAMUEL CHASE, CITY CLERK.

COMMON COUNCIL:

WARD 1.

Peter B. Sherlock,
 Patrick H. Plunkett, '85,
 Thomas J. Enright,
 Timothy H. Brennan.

WARD 2.

Walter M. Sawyer, '85, *President*,
 Charles H. Richardson, '79,
 James R. Fulton, '85,
 Francis D. Munn, Jr., '85.

WARD 3.

Daniel Cleary, '85,
 Patrick J. Mahan,
 Edward D. McVey,
 Thomas J. Sparks, '84, '85.

WARD 4.

Arnold S. Welch, '85,
 George A. Roper, '85,
 Frank W. Howe, '85,
 William A. Lang, '85.

WARD 5.

Henry L. Newhall, '85,
 Elwyn W. Lovejoy, '85,
 Wilson W. Carey, '85,
 Roswell M. Boutwell, '85.

WARD 6.

Lawrence J. Smith, '81, '82, '83,
 John E. Drury,
 Charles H. Hobson,
 Marcellus H. Fletcher, '84.

DAVID CHASE, CLERK.

ORDINANCES.

CITY OF LOWELL.

In the year eighteen hundred and eighty-six.

AN ORDINANCE FOR THE REGULATION OF PLUMBING.

Be it ordained, by the City Council of the City of Lowell, as follows :

SECTION 1. No person shall carry on the business of plumbing unless he shall have first registered his name and place of business in the office of the City Engineer, and notice of any change in the place of business of a registered plumber shall be immediately given to said City Engineer.

SECTION 2. Every plumber, before doing any work in a building, shall, except in the case of repairs of leaks, file at the office of the City Engineer, upon blanks to be provided by the Board of Health for the purpose, a notice of the work to be performed. No person shall commence work on such drainage, or plumbing, until the plans are approved by the Board of Health. Plans and specifications shall be approved or rejected within five days of the time of filing.

SECTION 3. The Board of Health must be notified when any work is ready for inspection, and all work must be left uncovered and convenient for examination until inspected and approved.

SECTION 4. Every building shall be separately and independently connected with the common sewer, or cesspool, said cesspool to be approved by the Board of Health.

SECTION 5. Drains and soil pipes, through which water and sewage is used and carried, shall be of iron, or Akron, or cement drain pipe, to be approved by the Board of Health when within a building. They shall be supplied with a suitable trap placed with an accessible clean-out, either outside or inside the foundation wall of the building. There shall be a fresh air inlet pipe entering the soil pipe or drain on the house side of the main trap of not less than four inches internal diameter. All soil pipes shall be carried out through the roof, open and undiminished in size, to such height as may be directed by the Board of Health, but no soil pipe shall be carried to a height less than two feet above the roof.

SECTION 6. Every sink, basin, bath tub, water closet, slop hopper, and each set of trays, and every fixture having a waste pipe, shall be furnished with a trap which shall be placed as near as practicable to the fixture that it serves. Traps shall be protected from siphonage, or air pressure, by special air pipes of a size not less than the waste pipe ; but air pipes from water closet traps shall be of not less size than two inch bore for thirty feet or less, and not less than three inch bore for more than thirty feet, and shall be run as direct as practicable.

SECTION 7. Drip or overflow pipes from safes under water closets and other fixtures, or from tanks or cisterns, shall be run to some

place in open sight, and in no case shall any such pipe be connected directly with a drain waste pipe or soil pipe. Waste pipe from refrigerators, or other receptacles in which provisions are stored, shall not be connected with a drain soil pipe or other waste pipe.

SECTION 8. Every water closet, or line of water closets on the same floor, shall be supplied with water from a tank or cistern, and the flushing pipe shall not be less than one inch in diameter. Provided, that where it is impracticable by reason of frost the Board of Health may give a written permission for other service.

SECTION 9. The provisions of sections 3 to 9 inclusive of this ordinance shall apply only to buildings erected, or to work performed, after its passage.

In Common Council, April 27, 1886.

Passed to be ordained.

W. M. SAWYER, President.

In Board of Aldermen, May 18, 1886.

Passed to be ordained.

JEREMIAH CROWLEY, Chairman.

Approved May 20, 1886.

JAMES C. ABBOTT, Mayor.

CITY OF LOWELL.

In the year eighteen hundred and eighty-six.

AN ORDINANCE TO AMEND CHAPTER FOURTEEN OF THE REVISED
ORDINANCES OF 1883.

Be it ordained by the City Council of the City of Lowell, as follows :

That Sect. 2 of Chapter 14 of the Revised Ordinances of 1883 be amended as follows :

By striking out the word "and" at the beginning of the second line and inserting in place thereof the word "the."

By inserting after the word "Council," in the same line, the words "and Superintendent of Public Schools."

By striking out the words "one from each ward," in the third line, and by striking out all after the word "years" in the eleventh line.

That Sect. 4 be amended by striking out all after the word "chosen," in the first line, and inserting the following: "in the month of December, 1886, and whenever a vacancy occurs, by a vote of the Board of Directors, a Librarian of the City Library, who shall hold his office until removed for cause."

That Sect. 5 be amended by inserting after the word "said," at the beginning of the eighth line, the words "library and."

In Common Council, March 23, 1886.

Passed to be ordained.

WALTER M. SAWYER, President.

In Board of Aldermen, March 30, 1886.

Passed to be ordained.

JEREMIAH CROWLEY, Chairman.

Approved March 31, 1886.

J. C. ABBOTT, Mayor.

CITY OF LOWELL.

In the year eighteen hundred and eighty-four.

AN ORDINANCE REGULATING THE ERECTION AND MAINTENANCE OF
WIRES IN STREETS AND WAYS.

Be it ordained by the City Council of the City of Lowell, as follows :

SECTION 1. The Mayor and Aldermen may give to Telegraph, Telephone, Electric Light and other Companies desirous of erecting and maintaining wires in the streets and ways of the City, instruments in writing specifying where in said streets and ways the posts of said Companies may be located, the kind of posts, and the height to which and the places where the wires of said Companies shall run.

Provided that no such Company shall be permitted to erect or maintain their said wires in such positions as to cross from above any wire of the Lowell Fire Alarm Telegraph. And provided further that any and all of said Companies shall erect and maintain the topmost crossbar on their said posts for the exclusive use of the wires of the said Lowell Fire Alarm Telegraph, and such other wires as the City may at any time attach thereto for its own use.

In Common Council, December 10th, 1884.

Passed to be ordained.

JOHN J. HOGAN, President.

In Board of Aldermen, December 16th, 1884.

Passed to be ordained.

ROBERT J. THOMAS, Chairman.

Approved December 31, 1884.

JOHN J. DONOVAN, Mayor.

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SIXTY-FIRST
ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF LOWELL, MASS.,
TOGETHER WITH THE
TWENTY-THIRD ANNUAL REPORT
OF THE
SUPERINTENDENT OF PUBLIC SCHOOLS,
REPORTS ON EVENING SCHOOLS, MUSIC, MILITARY INSTRUCTION,
AND BOOKS AND SUPPLIES,
AND AN APPENDIX.
1886.



LOWELL, MASS.
DAILY COURIER JOB PRINT.
1887.

CITY OF LOWELL.

IN SCHOOL COMMITTEE,
Jan. 1, 1887.

THE Chairman of the Committee on Reports, REV. GEO. W. BICKNELL, presented a report this day, which was unanimously adopted as the Report of the School Committee for 1886.

The Superintendent of Schools, and Chairmen of the Standing Committees on Evening Schools, on Music, on Military Instruction, and on Books and Supplies, at the same time presented reports, which were accepted and ordered to be printed with the Report of the School Committee.

GEORGE F. LAWTON, Secretary.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1886.

JAMES C. ABBOTT, Mayor.
 DANIEL J. DONAHUE, Vice Chairman.
 GEO. H. CONLEY, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

JAMES C. ABBOTT, Mayor	}	<i>Ex-Officiis.</i>
WALTER M. SAWYER, Pres't Common Council,		
Ward 1—STEPHEN J. JOHNSON	Term	Expires 1886
LAWRENCE CUMMINGS	"	" 1887
" 2—HERBERT P. JEFFERSON	"	" 1886
WALTER H. LEIGHTON	"	" 1887
" 3—DANIEL J. DONAHUE	"	" 1886
JOHN J. CLUIN	"	" 1887
" 4—RANSOM A. GREENE	"	" 1886
GEORGE W. BICKNELL	"	" 1887
" 5—ANDREW G. SWAPP	"	" 1886
GEORGE W. BATCHELDER	"	" 1887
" 6—CHARLES H. CONANT	"	" 1886
WALTER M. LANCASTER	"	" 1887

STANDING COMMITTEES.

ON ACCOUNTS—The Mayor, Messrs. Sawyer, Batchelder, Conant, Cummings.

ON SCHOOL-HOUSES AND HYGIENE—Messrs. Batchelder, Greene, Jefferson, Swapp, Leighton.

ON TEACHERS—Messrs. Johnson, Donahue, Cluin, Jefferson, Bicknell.

ON REPORTS AND PRINTING—Messrs. Bicknell, Swapp, Cummings, Lancaster, Donahue.

ON BOOKS AND SUPPLIES—Messrs. Cluin, Johnson, Greene, Donahue, Cummings, Swapp.

ON SALARIES—The Mayor, Messrs. Conant, Leighton, Bicknell, Lancaster.

ON PENMANSHIP AND DRAWING—Messrs. Greene, Johnson, Swapp, Batchelder, Conant.

ON MUSIC—Messrs. Donahue, Jefferson, Johnson, Lancaster, Conant.

ON EVENING SCHOOLS—Messrs. Cummings, Greene, Cluin, Swapp, Leighton.

ON RULES AND REGULATIONS—Messrs. Conant, Batchelder, Bicknell, Jefferson, Lancaster.

ON MILITARY INSTRUCTION—Messrs. Leighton, Cluin, Bicknell, Batchelder, Lancaster.

ON REFORM SCHOOL—The Mayor, Messrs. Sawyer, Johnson.

ON HIGH SCHOOL—The Mayor, Messrs. Sawyer, Johnson, Jefferson, Cluin, Greene, Swapp, Lancaster.

ASSIGNMENT OF SCHOOLS.

THE MAYOR—High and Reform Schools.

PRES'T COMMON COUNCIL, SAWYER—High, Reform.

MR. JOHNSON—High, Reform, Mann, Kirk Street, Central Street, Chapel Street.

- MR. CUMMINGS—Green, Cabot Street, Rock Street, Cheever Street.
 MR. JEFFERSON—High, Varnum.
 MR. LEIGHTON—West Sixth Street, Tenth Street, Morrill, River Street.
 MR. CLUIN—High, Butler, Agawam Street, Carter Street.
 MR. DONAHUE—Colburn, Elliot Street, London Street.
 MR. GREENE—High, Edson, Dover Street, Plain Street.
 MR. BICKNELL—Highland, Franklin, Powell Street.
 MR. SWAPP—High, Bartlett, School Street.
 MR. BATCHELDER—Pawtucket, Mammoth, Varnum Avenue, Middlesex Village, Howard Street and annex on Grand Street.
 MR. CONANT—Moody, High Street, Pond Street.
 MR. LANCASTER—High, Church Street, Lyon Street, Ames Street, Charles Street.

GEO. H. CONLEY, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

JOHN A. SMITH, Supervisor of Evening Schools.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BERMINGHAM. JOHN F. WILLIAMS.

Office in City Government Building.

REPORTS.

REPORT OF THE SCHOOL COMMITTEE.

THE COMMITTEE UPON REPORTS, in pursuance with regulation and precedent, has the honor respectfully to present the following as the annual report of the School Committee.

After many years have elapsed, during which time a paper of this character has been annually presented for the consideration of officials and others interested, it becomes a difficult matter to offer anything essentially new; but yet the time when there is need of emphasizing many of the suggestions of the past, or calling attention to matters of importance and practical value to the present welfare of our schools, and hence to the general public, has not passed away.

In this age the necessity of education is recognized. There are hardly any so poor, or so shiftless, as to affirm a negative. We need not, then, discuss this question at the present time. The various methods and means of education—the best manner of training and of disciplining—the thousand and one details of school efficiency and progress, have been and are being discussed by some of the most thoughtful and consecrated scholars.

of the land. Life work and study have been given to these essentials; and we only endorse a truth, as it seems to us, when we say that unquestionably the best is used, to a greater or less extent, in all progressive and earnest school work. Experience teaches men that one of the grandest bequests they can leave to their children is a well-stored mind. Communities, generally speaking, are partially ready to pay for the best methods to secure such results, and for competent teachers to drill and instruct; although in this respect the public mind has not been so well educated as it has been in recognizing the first proposition presented. While, then, the theoretical has been accepted, it becomes more difficult to accept the practical. Oftentimes what *has* been good enough in the past is believed by many to be good enough now. If in seasons or decades gone by, boys who as men have become successful in any of the relations of life mastered the elementary principles of an education in the old-fashioned, dingy, smoky school-house, with its hard seats and benches; committed the lessons verbatim though with little understanding and with little explanation; went through somehow, and went out into the world-school to battle, and yet to win; thousands cannot see why the boys and girls of the present time cannot do the same; why there should be any more expense than formerly, never once thinking that, with the advancement of the average American, one to win in these days, aye, even to commence a

success, must be much better equipped than ever before. So they sneer at methods, and shrug their shoulders when a dollar of expense beyond an absolute necessity is asked to give us, what the most reflecting minds decree to be the best, and, in many respects, the most essential. But the world is advancing, whatever may be the opinions of those who do not watch the current of events; and only as we possess the best in anything can we hope to keep abreast with the on-sweeping tide of education, intelligence, and prosperity.

That we have in Lowell much which ranks with the best is a fact. That her citizens have recognized the great value of education is evident when we consider the expense, as we believe, cheerfully borne, and the heartiness given to every proposition for a general unfolding of children's minds. That there are still many things needed, which a prosperous city like Lowell should possess, is also true. We have not what might be termed a crushing debt; we are not oppressed with exorbitant taxes; we are not staggering under hard times; we are not rich; we are not poor; while we do enjoy a prosperity sufficient to enable us to do a greater good than we do, and that without wearisome burden. We affirm, what has been so often expressed by others, that there is no department in which money can be expended to greater advantage, or which calls for a livelier interest in its welfare, than the educational. We are building for life—for future prosperity, and

though we cannot tell how far this work extends into the future, surely for earth we are laying up treasure "where neither moth nor rust doth corrupt," and which will be of vital importance and usefulness in all coming experiences.

It will be said that Lowell has freely given of her means to promote educational facilities. True. Yet there are many who inquire, "How is it that our schools cost so much more now than formerly?" We must not forget the fact that our city is growing; that already some districts have out-grown their accommodations; that there have been increases beyond the ideals of the wisest of ten years ago, and hence increased expenses result. If with this increase of scholars, expenses, and demands, there came to our city no increase in revenue from additional taxes upon people coming to make their homes with us, and adding their property to the gross amount taxable, there might be some reason why the strictest economy should be exercised. But as much is required, even so to us much has been given. Extravagance should never be permitted; but it is not extravagance when money is spent to give to the children of Lowell the best at her command.

Sums absolutely inadequate to properly sustain the schools of Lowell—or to sustain them in all of their relations as we are able to do—have been appropriated for school purposes. Oftentimes, somebody has guessed that about so much money might be required for the

year. It has been essential, of course, that the guess should be marked with wisdom; although a great deal of wisdom at the commencement of a municipal year is of the non-progressive stamp. The fact, however, is that the guess has usually fallen below the actual necessity, and the fearful (?) alternative that either the appropriations must be over-run in spite of all the heroism manifested when the cry "exceeding appropriation" was sounded, or else absolute interests must suffer, stared all in the face. The consequence is that the schools have cost beyond their appropriations, notwithstanding the valiant battles which have been fought to make some other department pay for expenses on schools or school-houses; as though it made any difference to the City of Lowell who paid the bills, as long as they were paid, and there *was money in the treasury, or money somewhere*, belonging to the city to pay them. In view of the greater demands made by the increasing numbers of scholars, we deem it not economy, but almost a measure of folly, with a tincture of meanness, to restrict the school funds to the lowest possible minimum, and to estimate the fidelity and ability of the members of the school board by their success in keeping within the guess-work appropriation, or by their failure in making both ends meet with the means allowed. The school appropriation is not alone for the absolute expenses of the schools, such as paying teachers, furnishing text-books, and doing the legitimate work

of the schools, but it has many bills of expense for repairs and various necessary improvements, which, properly, should not be charged to its account, although it is a question if some politicians would ever allow the necessary repairs and improvements to be made if they were not charged thereto. It is an absolute fact that there are intelligent men who believe in the dollar first and every time, and in the schools second—if they get time. So the school appropriation sustains the schools and much more.

No complaint upon this ground would be made if the appropriations were only large enough. But the truth is, with the passing years, many school buildings have become almost useless and undesirable; while in some districts the new school-houses are inadequate for the requirements of the localities. We need at once several new buildings to accommodate the increased number of applicants. Some houses are badly located for the purposes designed, notably the Franklin and Moody. There may be others. Close to busy, paved, noisy streets, it is almost a wonder that teachers and scholars can accomplish as much as they do. The wear and tear to nerves must be terrible. Some are wholly unfit for occupancy, notably the Rock, Church, and Elliot Street Schools, and others. In many places the sanitary arrangements are miserable. Conditions are allowed in our school buildings, and our children sent to take their chances of becoming sick from odors, permeating rooms

and halls, which we would not tolerate in our homes a single hour. We would pay double our taxes to abate the evil in our houses; but under the guise of "city's poverty," hug our dollars and let a wrong for the public continue. One great need today is a brain which can invent and place in practical working a decent sanitary arrangement for our public school buildings. Until that is perfected, out of basements, out of doors, with convenient necessities, should be the direction. A quarter—yes, a half a million dollars expended in erecting new and necessary buildings; in putting in good repair those which are unfit for decent children to enter—and what is not good enough for a rich man's child is not good enough for the poorest man's child who desires to gain something to take out into the world with him—in making pleasant and desirable the school buildings; would be one of the grandest investments our good city could make. It might not give employment to so many from whom votes are expected by the various political parties as if expended in some other, though not so essential, manner; but it would give additional impetus to hundreds of the rising generation who are preparing themselves, not only to vote, but to control the educational and financial affairs of the future.

For years we have been putting up with the inconvenience of a single building for a High School. While it is true that the standards are so high, the requirements so strict, and the course of study, etc.,

so arduous, that only a small part of the scholars who have been connected with our Grammar Schools ever complete the High School work, yet a sufficient number do attend to make it over-crowded. We say over-crowded, because there are so many who are required to find accommodations in the third story. A new building, or another one to be used for the same purpose, is one of the urgent demands of the day. To have one devoted to purely English, physical, and domestic culture, and the other to the classics, sciences, and so on, would be a decided improvement upon the present system. The present location, well enough once, is extremely inconvenient for many. Another building, even if devoted to the same educational methods as the present one, located westerly, would meet a great want. True, it would cost something; but the present arrangement is costing terribly, especially as concerns the health and strength of many of the young ladies, who are anxious and determined upon a High School education.

In this matter of school expenditure, of school improvement, of hygiene, we cannot afford to be parsimonious. Economy of a certain kind is well enough; but we need that economy which will consult the important school interests first, and the dollar afterward.

A few dollars expended upon the walls of most of our school buildings would render them much pleasanter and more desirable. Not only this, but

more healthful. The glare of the plain white wall meeting the eye of the pupil, month in and month out, cannot be without its ill effects upon his sight. "O, we stood it through our school days without detriment," is the remark of many. Some may; but were the histories of many weakened visions unfolded from their secrecy, the cause of a great number would be directly traceable to a false economy which we will not permit in our own homes, if we can help it. Make the school room pleasant, a desirable place to go to, to live in; give the scholars an opportunity to cultivate a little taste by placing upon decently prepared walls, pictures and mottoes, which they will gladly do of their own accord, and you will have better pupils. You, or they, may get an education in a barn, if so determined; but a barn discipline is not required in these days of prosperity and general comfort.

During the year the subject of the teachers' salaries has been considerably agitated. While it is true that, in many cases, the present ones are commensurate with the work and abilities of some teachers, it is also true that others are under-paid, if we estimate talent at its value. If we would have the best, compensation must be made desirable. In some cases salaries have been raised; if all should be advanced, even a small per cent., and a rule inflexibly enforced that all teachers not really worth the sum fixed should be retired, a competent board of disinterested parties to make the

examination, it would give authority for a revision of the list of teachers which would be of value. Anyone conversant with the present difficulties of removing incompetent teachers, can appreciate the opportunity which the above method would give. Bring your teachers up to the standard of salaries, and not adjust the salaries to the teachers. We want the best, and in every respect the best are the cheapest, even though you pay more money. By the former rule, you can command the service of the best; by the latter, there is a temptation to tolerate the second or third rate, which cannot too soon be overcome. The qualification for teaching is not alone intellectual culture. This is of vast importance, it is true; but an understanding of children, a natural love for, or an interest in, them; a firm yet pleasant attitude toward them; are most important requisitions; and not only this, but while possessing brains, they should also have a physique that isn't dyspeptic or gloomy, which does not remind one of a thunder cloud, but rather of sunshine; for in the school-room, of all things, a cross, unbending, solemn, cold-hearted teacher is least desirable. We are inclined to form our opinions of a person's qualification for teaching by the rank attained at a written examination, while the truth is, as already intimated, many other qualifications should enter into the estimate. There are teachers, so-called, ranking high in language and science, who are no more fitted to teach than as though they

were animated stone posts, and there are others not so intellectually brilliant, yet sufficiently so to lead their pupils on to grand success; and yet too often the first will be preferred to the second, because of the demand for mere intellectual culture alone. We do not want brutes nor do we want angels for teachers just yet; but we do want, in all of our schools, men and women, and those two words signify a great deal.

The annual election of those teachers already permanent seems superfluous. A good teacher should be able to feel secure in his or her place. The opportunity to drop a faithful teacher to make room for some other, especially an untried one, or to please the wisdom of some sub-committeeman, without the best of reasons, to be properly and impartially determined upon, should not be open. As long as one is worthy, able, efficient, faithful, so long should her service be continued. Politics, age, nationality, or religion have no business to enter into the consideration. The yearly farce of an election already once made, brings uneasiness and anxiety to all interested, and should be declared not worthy a place in our rules and regulations.

If parents and educators generally had in view the capacities and the capabilities of children's and young people's mental organizations more perfectly, and were governed less by a desire to have children "smart", it impresses us that the present system of cramming would be wrested of some of its power. Almost every

year the standards are advanced, but the scholar is expected to meet the conditions of advancement at about the same age as formerly, although there has not yet been any law discovered by which the mind can become precociously quickened and made to healthfully receive its over-loaded meal of book learning. We are getting many young brilliant minds; but we are also growing weak and puny bodies, never able to set off the brilliancy of the intellectual in after life. The necessity of the day is a more practical development of the physical and mental in unison. A school of physical culture has been hinted at in the past. The military drill for the boys helps a little. If something practical could be established for young ladies; if there should be less smattering of non-essentials and more instruction in essentials, we might not send out so many limpid young women into the world, but we should send out better equipped ones for the domestic and earnest duties of life; while they might possess, at the same time, as many of the really required accomplishments as are essential to home and society. Above the primary department, there is not a course of study in our schools which should not be extended, as regards time. It is a wrong to allow our boys and girls, at twelve or thirteen years of age, to struggle under the burden of the four years' course in the High School (and which, under the present requirements, should be extended to at least six years) with bodies, in so many instances, too weak to walk

erect after the school hours. Many may differ, but if sixteen years of age was the earliest any one could enter upon the High School work, the beginning of a reform might be instituted. Moreover, under the present pressure much study is required to be done out of regular school hours. In very many instances we pay teachers, not to teach, but simply to listen to recitations which the scholars have really been taught at home by the aid of parents, or by other methods which may be proper, or hap-hazard. The work of the school should be done in school hours, making your schedule to fit the hours, while every moment spent outside in the work is, in nature, wrong. In some respects there is a great deal too much work required of young brains, and too little physical exercise outside of the school room. More years might be consumed in completing the courses prescribed, but they would be years of immense profit to the young in after life.

In our schools there have been but few changes of note. In June last, however, our former efficient and faithful Superintendent, Mr. George H. Conley, resigned his office to accept another, more lucrative and with a wider field for usefulness, in Boston. His work and record in Lowell were excellent, and he left our city with the best wishes of all who knew him. To the position thus left vacant George F. Lawton, Esq., was elected. He brought to his work a practical and ripe experience acquired formerly as a teacher, and manifested a desire to

make himself thoroughly acquainted with his duties and responsibilities.

The office of School Superintendent, however, should not be one liable to change from year to year. No man can work so well as he who knows he is not liable to removal without just and sufficient cause, and so can devote more energy to his duties with a greater amount of enthusiasm, feeling that while he is worthy and faithful, his ability and works will be recognized. To make the office one of political favoritism, and liable to political changes, is an act which, by some legal measures, should be forever debarred. Experience makes men better and more valuable. The divorcement of schools and school officials from political dictum cannot too soon be made imperative.

The present system of the supervision of the Primaries by the several Grammar masters, and the examination of pupils for promotion from the Primaries to the Grammar Schools under the direction of the masters, calls for some enlargement. As a matter of principle, no master should be allowed to decide who shall, or shall not, enter his school. If the master can decide upon the merits of those who shall enter the High School, our Primary teachers ought to be able to determine who is fitted for advancement to the Grammar Schools, or else the teachers are not qualified for their positions. If in this respect any partiality is exhibited the penalty to the teacher should be dismissal. With

the supervision there is responsibility delegated to the masters, but no means to make good the responsibility. It seems almost a waste of time for them to supervise simply as visitors with no power. The master, under the present regulation, may desire the best fitting for his schools, may point out errors if any exist, and may counsel the Primary teacher, which error she may rectify, or which counsel she may accept or not, as she chooses; and while, as we have said, he has responsibility, he is powerless to make conditions to meet the requirements. As all authority is vested in the Superintendent he should have the responsibility, blame, praise, and work. If the duties are too onerous, let an assistant be elected, whose duty might be to supervise the Primaries, or to aid him in his general work, as may be deemed expedient. To fully perform all the duties of a Superintendent, with the growth of our schools, a competent assistant is demanded today by the exigencies of the school service.

Instruction by special teachers in both drawing and penmanship continues as last year.

During the summer, by a vote of the Board, a special instructor in music was elected, and at the commencement of the fall term was assigned to the schools. Though he entered upon his duties with zeal and earnestness, yet it becomes apparent to the careful observer that the instruction must needs be very superficial; for, devoting every moment to the schools, yet so large is their

number that even the longest lesson to double classes is half an hour, and this is given but once in two weeks, for the reason before stated. We are of the opinion that the return in detail is not an equivalent to the expense. No one man, under present methods, can possibly fill all the duties of instructor. Some of your Committee conscientiously feel that all instruction in the ornamental branches is, practically and in every other way, an expense which we, for the public schools, should not incur. Be that as it may, yet to make the teaching of music profitable, either the present methods should be improved upon, the special instructorship abolished, or at least two more teachers should be employed. With all of the energy and faithfulness of the present incumbent, yet the work, under one man, can be done only in an unsatisfactory manner to himself, the schools, and the public.

The Evening Schools meet a want which is ever felt in a city like Lowell, and your Committee is confident that they have been doing a fair work, and should be maintained for the present, at least.

Yet with all the criticisms which have been made—and they are offered only with the hope that they may aid in correcting errors, and enable good work to go on to even better—it can be truly said, in general terms, that the schools of Lowell are good schools, many of them excellent. We have, we believe, able, earnest, and consecrated teachers. With a great majority there

is a love for the work, a devotion to the interests of the schools, which always mean prosperity and advancement to them and to their pupils. There is also a willingness manifested to rectify errors, to improve upon methods in any way which may seem just and reasonable, that promises increased efficiency. Aid in every proper way the school work of Lowell—not cripple or harass it—and we believe that the work of education will go on, proving even more beneficial to the young, and so, ultimately, adding to the great profit and welfare of our city and commonwealth.

Respectfully submitted,

GEO. W. BICKNELL,
ANDREW G. SWAPP,
DANIEL J. DONAHUE,
LAWRENCE CUMMINGS.

REPORT ON EVENING SCHOOLS.

To the School Committee:—

GENTLEMEN—When we assumed the duties assigned us in January last we found the number of pupils in the Evening High and Elementary Schools considerably in excess of the attendance reported at a similar period in previous years. The attendance at the schools would have been considerably larger in January and February of 1886, but for the fact that many, who were anxious to attend, were obliged to work in various mills, machine shops and stores. The decrease in attendance at the time when teachers and pupils should be interested in the studies of the schools is one of the defects with which those who favor Evening Schools have to contend. The falling off in attendance may be caused by many reasons. The majority of those attending are young men and women, who are obliged to work through the day to support themselves and perhaps relatives who are dependent upon them, and it is natural to expect that some of them will be unable to bear the strain of constant toil through the day and close application to studies in the evening. Others, we regret to say, leave the schools when they ascertain that they are not pleasure resorts, but educational institutions for the benefit of those inclined to be orderly in their deportment and attentive to the studies.

It is also but just to say that some pupils do not attend the schools constantly, because of the lack of interest displayed by a few teachers. We have, in visiting the schools, noticed teachers who contented themselves with remaining at their desks and repeating the questions of the text-books in regular order.

If a pupil desired further information, those teachers were slow in making explanations and sometimes the pupils were not correctly informed.

We are glad to say that many instances of this kind do not occur. In our visits to the schools we have noticed teachers who so interested pupils in their studies that it was with regret they remained away a single evening during the term. Another instance of the effective work of teachers was the desire expressed by pupils that the term of the schools be extended after March 1st.

We have found in our visits to the schools a number of pupils who never attended any school previous to their arrival in Lowell; others were unable to read and write in the English language. Many pupils of this class attend the Bartlett School, which is devoted to pupils of French-Canadian parentage. There was established in the Butler School building, early in the year, a room for pupils of Swedish parentage. All the studies of these pupils were conducted in the English language, and the progress made by numbers of the pupils attested the good work done by teachers and pupils.

In the Evening Elementary Schools are many pupils who have never attended a session of the Grammar Schools. Many of them were compelled, by the poverty or neglect of parents, to enter the mills and work-shops when they should be receiving an education. There are also pupils who register at the opening of the term, in October, who have not been more than a year or two in the Grammar Schools. These pupils, unaccustomed to the restraints and discipline of a school room, remain but a few weeks after the opening of the schools. We believe that it is the special object of the Evening Schools to reach and educate pupils of that character. To assist in keeping them in constant attendance at the schools we request the assistance of parents, relatives and employers of these young men and women. In our efforts to secure a large attendance at the schools we have been greatly assisted by the agents and other officers of our leading corporations, to whom we return our thanks.

It is with pleasure that we note the constant visits of some parents to the schools, and their anxiety that their children shall have the best instructors at the service of the Committee. It is our wish that parents generally would visit the schools and see for themselves how generously the City of Lowell provides for the education of those who are unable to attend the sessions of the day schools.

When pupils have absented themselves, postal cards have been sent to their residences, and in many cases satisfactory reasons are given for non-attendance.

During 1886, through the efforts of Hon. E. C. Carrigan, a bill was reported in the Massachusetts House of Representatives making it compulsory on cities with over 50,000 inhabitants to establish and maintain Evening High Schools. At the hearing granted the remonstrants, Superintendent George F. Lawton and Supervisor John A. Smith appeared by invitation of those in favor of the bill, and informed the Committee what had been done in Lowell regarding an Evening High School and its success. The bill was favorably acted upon in both branches of the Legislature and was signed by the Governor.

Previous to the opening of the term of the Evening High School in the fall of 1886, 308 persons made application to become members. After the opening of the term 22 other persons were added to the roll of membership, making the total 330. The largest attendance on any evening was 283. During November the average membership was 316, and the average attendance 247. In December the average membership was 269, and the average attendance 184. The decrease in the average during this month was on account of the number of pupils absent during the Christmas holidays.

The studies pursued in this school are Penmanship, Book-keeping, English Grammar and Composition, French, Science of Government, Elementary and Advanced Arithmetic, English Literature and Chemistry. James D. Horne, who has aided considerably in arousing an interest in the school, continues as Principal. He is assisted by Cyrus W. Irish, Thomas M.

Graves, George W. Poore, Julian L. Whiteside, F. N. Wier, John W. McEvoy, Joseph F. Mulcahy, William Bagley, and Miss Katie F. Keyes.

The total number of pupils registered at the opening of the term of the Evening High and Elementary Schools in November, 1886, was 1900, against 1600 in 1885. Owing to this increase, additional rooms were opened in the High and Franklin School buildings.

The total expense of conducting the schools during the term of 1885-86, as will be seen by the tabulated statement accompanying this Report, was \$10,736.65. The total expenditure of conducting the schools from January 1 to December 31, 1886, was \$10,125.51. Under Supervisor Smith's direction it is expected the expenses for the term of 1886-87 will be considerably reduced.

In conclusion, we desire to return our thanks to Supervisor John A. Smith for faithful services, and to the members of the School Committee and to Superintendent George F. Lawton for assisting us in our efforts to make the Evening Schools successful.

SUMMARY.

SCHOOLS	Number of teachers at opening of term.	Number of teachers at close of term.	Evenings taught.	Whole number of pupils on time-book during the term.			Average number of pupils belonging to school.			Average attendance.			Per cent. of attendance.
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
High,	10	10	91	155	61	216	107	49	156	85	40	125	80
Bartlett,	9	8	75	308	176	484	162	101	263	93	60	153	58
Butler,	8	8	75	216	132	348	107	51	158	75	38	113	71
Colburn,	8	4	75	312		312	105		105	66		66	74
Franklin,	6	5	76	128	47	175	57	32	89	45	25	70	79
Green,	8	8	75	300		300	178		178	124		124	69
Moody,	6	6	75	73	120	193	25	67	92	17	41	58	65
Worthen,	6	7	75		162	162		89	89		73	73	82
Varnum,	5	3	75	142	57	199	50	22	72	38	18	56	78
Total,	66	59		1634	755	2389	791	411	1202	543	295	838	

COST OF EVENING SCHOOLS FOR THE TERM.

Salaries	.	.	.	.	.	.	.	.	.	.	.	.	\$7,877 75
Janitors	.	.	.	.	.	.	.	.	.	.	.	.	1,291 00
Lighting	.	.	.	.	.	.	.	.	.	.	.	.	847 93
Incidentals	.	.	.	.	.	.	.	.	.	.	.	.	419 97
Supervisor's salary	.	.	.	.	.	.	.	.	.	.	.	.	300 00
Total	.	.	.	.	.	.	.	.	.	.	.	.	\$10,736 65

Respectfully submitted,

LAWRENCE CUMMINGS,
ANDREW G. SWAPP,
RANSOM A. GREENE,
JOHN J. CLUIN,
WALTER H. LEIGHTON.

REPORT OF COMMITTEE ON MUSIC.

To the School Committee:—

MUSIC in the public schools has not been a success. The reasons for this are obvious. 1st. A lack of interest on the part of the regular teachers. 2d. The lax following of the system now in use. 3rd. Failure to enforce the study by the School Board. The lack of interest by teachers, with some exceptions, is manifested in various ways. The principal one is their failure to observe and attend to the instructions of the Supervisor. No teacher can write notes, reports, and chat with other teachers during the music lesson and justify the action; it is a lack of respect for the Supervisor and an injustice to the pupils. How are they to instruct the army under their charge unless they interest themselves and heed the lesson? This complaint, we trust, in the future will not be allowed to arise. Another trouble is the failure to follow the manual supplied to all Primary Teachers. Unless this is done it is impossible to properly teach the National System.

At the beginning of the school year few of these manuals could be found, but on search some were produced from various places, filled with maple leaves and ferns. Now, this may be evidence of an interest in botany but not in music.

This year we are pleased to note a decided change. Music has again taken its place among the regular studies of the school. A special instructor has been engaged, in the person of Walter E. Owen, a gentleman of pronounced merit as a musician, enthusiastic, energetic and capable, bringing to his work natural gifts and years of experience; he has succeeded,

in the limited time he has been at work, in bringing about a marked change for the better. We should remember one thing in connection with the Supervisor's work. It is this: the scholars are not there as musicians are in a conservatory, and the same may be said of the teachers. Singing by syllable has been renewed. This had been dropped for the last few years in Lowell, and our city stood alone in this respect, being the only place in the country where music has been taught without use of the syllable. We have no space here to discuss music in the abstract. Suffice to say, as an educational factor it was recognized years ago. Of it Plato said: "Music to the mind is as air to the body." It appeals directly to the sentimental portion of our being; it promotes quick and precise mental action; it is among the best means to refresh a fatigued pupil; it promotes circulation of the blood; it is a preventive of throat and lung affections. In Europe "it is esteemed so highly as to be taught more hours per week than any other study." Full 95 per cent. of the human race are capable of becoming fair musicians. When they are *taught* this important branch, learn to read it as they would a book or a newspaper, then they will see that sounds are as fixed as are figures in mathematics; then, indeed, will a new order of things in the musical world be brought about and our people, as the Germans, become a really musical one, appreciating it for its worth and saying with the poet,

"Music is the measure of the planets' motion,
Heart-beat and rhythm of all the glorious whole;
Thrills through all hearts a uniform vibration;
Starting from God and felt from sun to sun;
God gives the key-note, Love to all creation,
Join, Oh! my soul, and let all souls be one."

DANIEL J. DONAHUE,
STEPHEN J. JOHNSON,
CHAS. H. CONANT,
HERBERT P. JEFFERSON.

REPORT ON MILITARY INSTRUCTION.

THE COMMITTEE ON MILITARY INSTRUCTION respectfully submit the following report:

On taking charge of this department of public instruction your Committee found that, while the condition of the battalion itself reflected credit on all connected therewith, some changes were needed in its equipment and surroundings, before the best results could be secured. Only one company was properly armed. The guns of the others were clumsy, old-fashioned pieces with which good work could not well be done. The armory was badly out of repair, and its condition was not such as to associate ideas of neatness and soldierly conduct in connection with the drill.

These defects have been remedied. New guns have been secured. Racks which afford a safe and fitting place for them have been added. Belts and bayonet scabbards have been issued. The hall has been painted, plastered and tinted; the officers' room furnished with all needed conveniences, and a case provided for the flags and other property of the command.

Although considerable expense was entailed by these improvements, yet so necessary did they appear that your Committee did not hesitate in ordering them. Good results have followed in the increased interest of the boys in their work and visible pride in their new arms and more suitable quarters. The discipline of the battalion is excellent, which renders possible movements not before attempted, and such variety adds interest to the drill. Of these, the silent manual, added this year by the military instructor, is an interesting feature. The former

high standard for efficiency and deportment has been fully maintained, which is in great part due to the confidence existing between the Committee and teachers in charge, and the pride that all members feel in the reputation of the command.

As the officers are elected by the Committee, with the advice of the teachers, they feel responsible for the satisfactory performance of their duties.

The guns as at present furnished are not provided with straps, and it would add much to the appearance of the battalion if these could be obtained.

It is recommended that a number of the guns be provided with wooden barrels, which would greatly lessen their weight and so relieve some of the smaller boys, who cannot handle their pieces without great exertion.

It is recommended that the teachers in charge be required to keep an accurate record of all cases of discipline, such record to be submitted to the Committee, and that members of the command so reported be ineligible to promotion and subject to such further discipline as the Committee may direct.

JOHN J. CLUIN,

For the Committee.

REPORT OF THE SUPERINTENDENT.

Gentlemen of the School Committee:—

IN accordance with the rules of this Board, I have the honor to submit the following report for the year 1886.

I first direct your attention to the Summary of Statistics.

SUMMARY OF STATISTICS.

Value of real and personal property	\$53,195,941
Population	64,051
Number of polls	16,379
Increase for the year	632
Number of children in the city between five and fifteen years of age, May 1, 1886	11,355
Ward One, 1,846; Ward Two, 2,322; Ward Three, 2,586; Ward Four, 1,840; Ward Five, 1,376; Ward Six, 1,385.	
Increase for the year	385
Number of public schools	44
Number of public school buildings	46
One High, nine Grammar, two Mixed, thirty-two Primaries.	
Number of teachers employed in them	184
High School: three males, ten females	13
Grammar Schools: eight males, seventy-three females	81
Mixed Schools: two females	2
Primary Schools: eighty-eight females	88
One teacher of penmanship	1
One teacher of drawing	1
One military instructor	1
One teacher of music	1
Increase for the year	8
Average number belonging to all the day schools	6,947
High, 353; Grammar, 2,877; Mixed, 42; Primary, 3,675.	
Average attendance in all the schools	6,309
High, 338; Grammar, 2,642; Mixed, 37; Primary, 3,292.	
Average number belonging to each teacher	37.7
High, 27; Grammar, 35.5; Mixed, 21; Primary, 40.6.	
Average number belonging to each room	40.2
High, 35.3; Grammar, 39.4; Mixed, 21; Primary, 40.6.	

Average per cent. of attendance	90.8
High, 96; Grammar, 92; Mixed, 88; Primary, 89.6.	
Average cost of each scholar, for tuition only, based on the average number belonging	\$17.27
High, \$31.95; Grammar, \$19.23; Primary and Mixed, \$13.57.	

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance undrawn Jan. 1, 1886	
Appropriated and assessed	\$160,000 00
Transferred from various appropriations	8,167 07
Received from other sources	721 11
Total amount standing to the credit of Schools	<u>\$168,888 18</u>

EXPENDITURES.

Paid to teachers of day schools:

High School	\$ 11,278 50
Grammar Schools—Bartlett.	\$6,358 76
Butler	6,540 00
Colburn.	6,124 26
Edson	7,605 62
Green	6,528 50
Highland	7,263 06
Moody	5,776 75
Pawtucket	2,400 00
Varnum	6,739 37
	<u>55,336 32</u>
Primary and Mixed Schools	50,456 26
Teacher of penmanship	1,100 00
Teacher of drawing	1,100 00
Teacher of vocal music	400 00
Military instructor	325 00

Total paid for instruction in day schools, inclusive of instruction in military tactics in High School \$119,996 08

Paid for Evening Schools:

To Supervisor	\$ 420 00
To teachers	7,526 25
Janitors	1,243 00
Lighting	778 76
Incidentals.	157 50
	<u>\$10,125 51</u>
Evening Drawing Schools:	
To teachers	\$3,993 50
Janitors	233 75
Lighting	406 20
Incidentals	455 96
	<u>\$5,089 41</u>
	<u>\$15,214 92</u>
Amounts carried forward	\$119,996 08

<i>Amounts brought forward</i>	\$119,996 08
Fuel	9,754 59
Water	1,597 05
General repairs, material, labor, etc.	3,858 56
Bills of Superintendent of Public Buildings for lumber, making and repairing furniture, labor, new furniture	926 52
Printing and advertising	733 49
Printing, binding and distributing 10,000 School Reports.	707 07
Free text-books	2,630 63
Drawing books, writing books, slates, pens, ink, paper, etc.	2,379 37
Incidentals on account of same	64 76
Books, charts, etc., for general use	395 45
Mr. Lang, for use of team to deliver books, etc.	100 00
Books for High School Library	79 30
Rifles, equipments, etc., for High School Battalion	827 90
Prize Drill of High School Battalion	89 50
High School Graduating Exercises.	63 00
Rebinding High School books	399 70
Taking of census of school children	572 75
Instruction of children in Chelmsford and Dracut	30 75
Rent of temporary rooms for school purposes	275 75
Drawing School exhibition	281 09
Lowell Gaslight Co., for gas for day schools	99 50
Electric Call Bells for Highland School house	212 34
Water closets, West Sixth Street School house	694 68
Supplies for janitors	808 78
Salary of Superintendent	2,600 00
Salaries of Truant Commissioners	2,350 00
Miscellaneous	1,144 65
Total expenditures	<u>\$168,888 18</u>

SCHOOL HOUSES.

Balance undrawn Jan. 1, 1886.	\$11,424 98
Appropriated and assessed.	33,000 00
Received from other sources	538 88
	<u>\$44,963 86</u>

EXPENDITURES.

Weed Street School	\$ 9,994 31
Varnum School	8,320 98
Janitors	14,112 45
General repairs	10,397 13
Total expenditures	<u>\$42,824 87</u>
Transferred to different appropriations	889 62
Balance undrawn	1,249 37
	<u>\$44,963 86</u>

SCHOOL HOUSES.

A brick addition to the Varnum School House was built during the summer vacation and the month of September.

The annex contains two fine, well-lighted rooms.

Contrary to expectation it was found necessary to occupy both rooms immediately. Should the increase in attendance continue for another year in Centralville, at the same rate as in the past two years, the Varnum School building would again be crowded.

Further additions to that building would be undesirable. The increase of population in the territory northward from Aiken Street makes a new Primary School House in that vicinity a necessity.

Perhaps the best plan would be to erect a building large enough to accommodate both a Primary School and a small Grammar School. If, in the future, such a Grammar School should outgrow such a building, a new and larger one could be built for the Grammar department, while the original structure could be devoted entirely to the Primary School.

The least that can be done to provide for the immediate requirement of the present is to erect a Primary building in the locality indicated.

WEED STREET SCHOOL HOUSE.

A new four-room building for Primary Schools has been erected at the corner of Weed and Gorham Streets.

Two rooms upon the first floor were finished for immediate occupancy. The other two rooms remain unfinished at present.

The building is of wood, but of the most approved model.

Twenty-eight scholars were transferred to the new school house from the London Street School, thirty-five from the Carter Street School and seventeen from other sources, making eighty in all. After the transfer from the Carter Street School, about thirty of the scholars of the Lyon Street School were received into the Carter Street School, perceptibly relieving two crowded rooms from which they were

taken. It is thought that it will not be necessary to finish a third room in the Weed Street School House for a year. It certainly would not be necessary if any addition could be made early next year to the London Street School House.

Most of the children transferred from the latter school to the Weed Street School live nearer to the old than to the new building.

An annex on London Street, containing two rooms, is imperatively called for.

A separate structure situated in "Ayer's City," or the region in Ward Three westerly from London Street, would serve the same purpose as the annex.

The progress, however, in building has tended in the direction of large structures with large schools in central localities. It is only by the continuation of this policy that thorough grading can be attained. It is apparent that this policy may be insisted on to an undesirable extent.

In sparsely populated districts of the city, perfect grading can only be secured at great inconvenience to very young pupils and at too great a sacrifice in other respects.

HIGH SCHOOL.

It may be futile to call public attention to the insufficiency of the High School House. This has been pointed out by my predecessors more than once.

Compared with our Grammar and Primary Schools the High School is of insignificant importance. The law, however, requires such a school to be maintained, and the people of Lowell desire it to be handsomely maintained.

In this Commonwealth, all the children must have a Grammar and Primary School education.

In all towns of more than 4000 inhabitants, all the children *may* have a High School education: In a city of 70,000 people, the High School should be the crown of our local school system. It should have a great many good things. Among them should be a suitable school building. There should be a hall for the assembling of the entire school. This

is not the place to argue that such a room is of prime importance to the discipline and general management of a High School of 400 pupils. That importance is admitted everywhere that modern American school houses are built. When the house was last remodelled, the third floor was used as an assembly room and was an admirable one. The growth of the school in numbers has necessitated cutting up the old hall into four school rooms, and there are no uglier school rooms in the city than these four.

The corridors and passageways are altogether too narrow. They are thronged every time there is a change of recitations during the day. Including the laboratory, there are a dozen different places of recitation. Every time the recitation bell strikes, there is an interchange of scholars from room to room throughout the building. For their orderly, rapid and decorous transfer, large corridors and hallways are indispensable.

The rooms are neither well lighted nor well ventilated.

The building is old, inconveniently arranged and generally behind the times. So much stress is laid upon the necessity of a new High School House, because of the belief that the earlier the agitation of the subject is begun the sooner a proper building will be had.

To almost every plan for relief that can be suggested there are some palpable objections. Exactly what ought to be done to bring about the desired result is hard to determine, and for this reason it is very important that the subject should be taken up immediately. It has been suggested that the Green School House be altered over to accommodate the High School and that the High School House be remodelled for the occupation of the Green School.

It has been also suggested that the High School be divided; that a new building be erected in the southern part of the city and that a separate school be established therein. Still another plan has been mentioned, involving the purchase of property adjacent to the present High School lot, an extension of the present structure, or its entire demolition, and the erection of a new and larger building.

During the year 1885 four teachers were added to the High School corps. Until the close of the present school year, Miss Melvin was absent on leave pursuing the study of the modern languages in Europe. The smaller number of pupils made it possible to continue without a temporary teacher in her place.

In March Mr. Cyrus W. Irish was transferred to the High School from the Pawtucket School. His career since has justified the high expectations entertained, that his services would be peculiarly valuable in the position of his new labors. In June Miss M. Jennie Keese tendered her resignation, which was accepted by the Board, and the following resolutions were unanimously adopted:—

Resolved, That by the resignation of Miss Keese the High School suffers the loss of an efficient and accomplished teacher.

As an assistant and principal teacher in a Grammar School, and afterwards as assistant in the High School, she rendered services that were exceptionally varied and valuable.

This Board hereby recognizes her uniform success and expresses its regret at receiving her resignation.

The graduating class for the present year numbered seventy-three, of whom twenty-seven were of the four years' course and forty-six of the three years' course.

The average age of the graduates was seventeen years and seven months.

The graduating exercises were held at Huntington Hall, Tuesday evening, June 29th.

The following is a copy of the programme:—

ORDER OF EXERCISES.

OVERTURE.

OWEN'S ORCHESTRAL CLUB.

CHORUS.—“Pleasures of Hope” J. W. C. Elliott.

GARFIELD.

HARRY C. MESERVE.

OLD BOSTON Written by Mabel D. Nickerson.

IDA W. WHITTEMORE.

2. Standard oxalic acid 1 c. c. exactly corresponding to 1 m. g. of carbonic dioxide.

3. An indicator, Rosolic acid or Phenol phthalein. A number of calibrated bottles containing 4 to 8 litres. These should be fitted with perforated rubber stoppers, which have been treated with hot caustic potash and well washed. The stoppers should carry a good sized glass tube, just passing through and projecting above for an inch in order that it may be closed by a rubber cap. The bottles clean and dry, are filled with the air to be tested, by means of a suction bellows. A glass tube reaching to the bottom of the bottle should be connected with the bellows by a rubber tube. The bottles after being filled are taken to the laboratory, where the barometer and thermometer are noted. The bottles are allowed to stand until they reach the temperature of the laboratory. 50 c. c. of the standard baric hydrate, are now quickly run in through the tube in the stopper, the tube closed, and the bottle placed on its side and shaken at frequent intervals for an hour. At the end of the hour, shake well, taking care to have the liquid a perfectly homogeneous one, pour the mixture into a 50 c. c. bottle and allow to settle. An aliquot portion, 25 c. c. of the clear liquid is taken for titration with oxalic acid.

The difference between the number of c. c. of standard oxalic acid required to neutralize 50 c. c. of baric hydrate before absorption and after absorption gives the number of m. g. of carbonic dioxide in the volume of air tested. The value of carbonic dioxide is calculated to volumes saturated with moisture by the table in Fresenius, paragraph 139. An example will show the method of calculation. 8.467 litres of air contained 17.2 m. g. of dry carbonic dioxide. Temperature, 18°; barometric pressure, 760 m. m. According to Fresenius 1 c. c. carbonic dioxide saturated with moisture under these conditions will weigh 1.80781 m. g. therefore,

$$\frac{17.2 \times 10}{1.80781 \times 8.467} = 11.24$$

will be the parts of carbonic dioxide per 10,000.

Very respectfully, your obedient servant,

CYRUS W. IRISH.

There is referred to the sub-committee, the request for the building of an annex to the Butler school-house, but it was deemed advisable to refer the matter to the committee appointed for the year 1890.

Respectfully submitted,

LAWRENCE CUMMINGS,
GUSTAVUS A. GERRY,
JOHN W. McEVOY,
RANSOM A. GREENE,
A. G. THOMPSON,

Committee on School-Houses and Hygiene.

REPORT ON MUSIC.

The Committee on Music, in accordance with the requirements of the rules of the Board, make the following report :

In presenting this report as to the condition of music in the public schools, we desire in the first place to again call your attention to the zeal and skill displayed by the special instructor in music in the performance of his duties. The past year has proved no exception to the previous ones, but has still further demonstrated the fact that he is specially adapted to the work.

The results of the experiment of the previous year having proved satisfactory, the Committee have continued the instruction of music in the High School by having the girls meet the instructor once a week in the hall of the Green School building.

Notwithstanding the disadvantages arising from the lesson being given in a building separate from the High School building, we believe it to be wise to continue the same until such time as the city shall provide a new High School building, when music can again be systematically taught in all the schools, beginning with the primaries and continuing to the completion of the course in the High School.

In the fall of 1888, as stated in the report of the Committee for that year, charts of the Normal system, so called, of instruction in music, were placed on trial in certain primaries, and the revised charts of the National system, so called (the system then in use in all the schools of the city), were placed in certain other schools.

In the spring of 1889, the Committee visited each one of these schools, for the purpose of ascertaining the result of the experiment, and reported, recommending to the Board that the material of the Normal system be substituted for that of the National in all the primary schools of the city. The Board having voted to do this, the change was made at the beginning of the fall term, and so far as we have heard, no complaints have been made on

Lawrence Joseph McCarthy.
 John Henry McNabb.
 Albert Wallace McQuesten.
 Harry Chamberlain Meserve.
 Charles Foster Perham.
 John Henry Riordan.
 George Henry Root.
 Eugene Guernsey Russell.

Mary¹Elizabeth Lennon.
 Mildred Estelle Norris.
 Sadie Maria Parker.
 Cleora May Plaisted.
 Daisy Mabel Shaw.
 Annie Elizabeth Slavin.
 Mary Frances Ward.
 Ida Warren Whittemore.

CARNEY MEDAL SCHOLARS.

John Joseph Tobin.
 Lewis Henry Dow.
 George Albert Costello.

Mabel Dollner Nickerson.
 Alice Bond Dexter.
 Mary Frances Ward.

SPECIAL MEDALS.

Special medals were granted by vote of the Board to four other graduates. Three of the recipients were considered not entitled to receive Carney Medals because of imperfect attendance or some disqualification other than a low grade of scholarship or imperfect deportment.

The names of scholars to whom these medals were awarded are :—

Merton Leland Miller.
 Winthrop Edwards Fiske.

Charles Austin Carey.
 Fannie Blanche Hard.

Of the graduates, five passed the examination for admission to Harvard University without a condition. This includes Miss Helen B. Peabody, who passed the examination for the Annex.

Four entered Harvard. Five are at other colleges; one at Dartmouth; one at Amherst; one at Holy Cross; one at Bates and one at Hamilton. Two are pursuing their studies at the Massachusetts Institute of Technology. The Principal of the High School received a letter complimenting his pupils, who were examined at Harvard, on their fine preparation in Chemistry. They passed with an unusual number of honors in other branches.

OPINION OF THE CITY SOLICITOR CONCERNING THE CARNEY MEDALS.

Replying to a request made by the Board for an opinion, the City Solicitor submitted the following:—

CITY SOLICITOR'S OFFICE,
LOWELL, MASS., Nov. 13, 1886.

To the School Committee:—

GENTLEMEN:—I am in receipt of a communication forwarded to me by your Secretary containing your request for an opinion on the following questions:—

First. Has any trust or legal obligation been assumed by the City of Lowell which requires the awarding of the Carney Medals, so called, to graduates of the High School?

Second. If such a trust or obligation exists, in what way, if any, can it be legally discharged, so that the awarding of the medals may be discontinued or avoided in the future?

From an examination of the correspondence accompanying the gift of Mr. Carney to the city, copies of which are hereto subjoined, as well as from an inspection of the records of the official action of the City Government relative thereto, I am led to the opinion that the gift of Mr. Carney was one to charitable uses, within the meaning of the law.

I am of the opinion, also, that the city has the legal capacity to accept the trust imposed on it by the terms of the donation, and that it has formally accepted the same by the adoption of resolutions by the City Council passed on the fourteenth day of September, 1858, and the twenty-sixth day of July, 1859, copies of which are annexed marked B and C; that by such express acceptance on the part of the Council, and the subsequent acquiescence therein by the School Committee, of the obligations thereby imposed on it by the terms of the acceptance as to the award and distribution of the medals, both the City and School Committee became bound to the performance of the trust as accepted.

The Supreme Judicial Court of the Commonwealth has by statute general jurisdiction of trusts so far as relates to the enforcement and regulation of the same, and for good cause shown may modify the terms of a trust or the holding of the same, when lapse of time or change of conditions, from whatever cause arising, may render it necessary to make such modifications in the execution of the trust as will carry out the intent of the donor as declared at the creation of the trust.

To effect this purpose legislative aid has been resorted to in some instances to clothe the court with the necessary

EXPENDITURES.Paid for LUMBER, HARDWARE,
ETC:

To	A. P. Bateman, for lumber, door, etc.	\$193 24	
	A. L. Brooks & Co., for lumber....	142 28	
	Frank S. Badger, for labor.....	65	
	Badger & Kimball, for lumber and labor	30 65	
	Burnham, Forrest & Davis, for lumber	100 93	
	Davis & Sargent, for lumber.....	51 92	
	Howe Bros & Co., for lumber.....	320 12	
	Wm. Kelly & Sons, for doors and sash	94 50	
	Amasa Pratt & Co., for lumber ...	28 96	
	Chas. E. Adams, for hardware, etc..	392 13	
	Bartlett & Dow, for hardware.....	23 83	
	J. C. Bennett, for hardware.....	4 20	
	John J. Lambe, for cornice.....	6 00	
	Pevey Brothers, for castings.....	1 20	
	Horace B. Shattuck, for hardware..	16 94	
	Frederick Taylor Co., for hardware,	136 68	
		<hr/>	\$1,544 23

Paid for SUNDRIES:

To	Sundry persons, for labor as per pay rolls	\$4,715 47	
	Sundry persons, for services as jani- tors	16,004 12	
	Appropriation for Roads and Bridges, for sidewalk assessments.....	142 87	
	Appropriation for Roads and Bridges, for services of engineer, labor, etc	150 95	
	Appropriation for Sewers and Drains, for sewer assessments	79 10	
	Appropriation for Public Buildings, for glass, paint, varnish, etc....	48 42	
	Appropriation for Water Works, for meters, water and changing service	36 95	
		<hr/>	
	<i>Amounts carried forward.....</i>	\$21,177 88	\$1,544 23

Amounts brought forward..... \$21,177 88 \$1,544 23

Paid for SUNDRIES :

To A. H. Abbott, for rake, poker, etc...	2 25
H. R. Barker, Mfg. Co., for pipe. fittings and labor.....	493 56
T. Costello & Co., for pipe, solder, labor, etc.....	173 99
Cole & Nichols, for castings.....	12 92
John Callaghan, for tin, solder, labor etc.....	46 69
Richard Dobbins, for grates, castings and labor.....	170 41
F. O. Decatur, for repairing poker, etc.....	2 85
Farrell & Conaton, for pipe, fittings and labor.....	17 31
S. H. Jones, for pipe, fittings and labor.....	1,149 40
W. A. Mack & Co, for pails, solder, register, zinc and labor.....	56 67
D. W. Mullen, for plumbing.....	4 70
A. Parsons, for labor and material..	1 90
Rice & Company, for wire netting, etc.....	10 58
Jerry Ryan, for tin, solder and labor.	3 55
Scannell & Wholley, for repairing and examining boilers.....	137 44
N. J. Wier & Co., for drain pipe....	4 30
H. H. Wilder & Co., for registers, galvanized iron, pipe, fittings, etc.....	1,397 42
Adams & Co., for chairs, enamel cloth, etc.....	110 95
J. F. Puffer & Son, for bocking and oil cloth.....	43 80
A. G. Pollard & Co., for cloth.....	1 00
Rugg & Gillard, for piano key.....	25
A. G. Whitcomb, for pedestals and desks.....	139 58
C. B. Coburn & Co., for paint, glass, varnish brushes, etc.....	164 33
Josiah Gates & Sons, for leather....	1 94
A. L. Kittredge, for lead, etc.....	69 62

Amounts carried forward..... \$25,395 29 \$1,544 23

the just discharge of the valuable trust committed to it agreeably to the expressed wishes of the donor.

2d. That medals with suitable devices and inscriptions be procured under the direction of the School Committee, and that the first distribution of them be made under like direction at the annual examination of the High School in 1859, and at every annual examination thereafter.

3d. That the medals be forever known and designated by the name of the "Carney Medal."

4th. That the letter of Mr. Carney to the Mayor, covering the donation, be entered upon the records of the City Council, in order that ever hereafter, the views and wishes of the donor in regard to the distribution of the medals may be fully understood.

5th. That a copy of these Resolutions be transmitted to Mr. Carney by the City Clerk.

Passed. In Board of Aldermen, Sept. 14, 1858,

E. HUNTINGTON, Mayor.

Passed. In Common Council, Sept. 14, 1858,

B. C. SARGEANT, President.

A true copy. Attest: JOHN H. McALVIN, City Clerk.

LOWELL, July 15, 1859.

HON. JAMES COOK, Mayor.

DEAR SIR:—The dies for the medals to be distributed in the High School have been prepared, and are lodged, with the dies for the city of Boston school medals, at the United States mint in Philadelphia, subject to the order of the City Government, or the School Committee, of the city of Lowell. The maker of them informs me that many dies for medals are left there, where a safe place is provided for them, and proper care taken of them, and medals struck as they may be ordered, by experienced hands, at reasonable prices. I understand that the dies belonging to the city of Boston are kept there all the time, and suppose they are better cared for there than they could well be cared for anywhere else.

I find, upon having some of the medals struck, that they are rather larger and more valuable than it was supposed they would be when the City Government accepted the donation, the annual interest of which was to be appropriated forever to their purchase and annual distribution; and that it will need the addition of the income of another hundred dollars to pay the annual expense. I accordingly enclose my check

for that amount, asking of the City Government the kindness to place it with the donation already made, under the same perpetual provisions, and remain,

Very respectfully,

Your fellow citizen and friend,

JAMES G. CARNEY.

LOWELL, July 26, 1859.

JAMES G. CARNEY, ESQ.

DEAR SIR:—I hereby acknowledge the receipt of an additional sum of one hundred dollars, to be placed with the Carney Medal Fund. Allow me, dear sir, to express to you my grateful acknowledgments for this generous gift. May it be the means (as undoubtedly it will) of stimulating our scholars to virtuous and noble exertion, to the latest generations, and thereby of elevating many to be well informed and honest men and women, to fill the important positions of public and domestic trusts, as well as to encourage our public school system, which is the very foundation of our religious and civil privileges.

The City Council has this day accepted your supplementary donation of one hundred dollars, and placed the same with the donation previously made, under the same perpetual provisions.

Very respectfully.

Your humble servant,

JAMES COOK, Mayor.

C.

CITY CLERK'S OFFICE,
CITY OF LOWELL, MASS.

[Extract from the Journal of the Board of Aldermen, being part of the record of proceedings at a meeting of the Board held on Tuesday evening, July 26th, 1859, and written on pages 431-432 Volume VI. of said Journal.]

“Came up from the Common Council a communication from the Mayor covering a letter from James G. Carney, Esquire, who has donated an additional one hundred dollars, the same to be placed with the donation already made for the Carney Medals.

“It was read, and the letter of Mr. Carney, enclosing his check for one hundred dollars, asking that it may be placed with the donation already made, under the same perpetual provisions, was read and accepted in concurrence.”

A true copy from the records.

Attest:

SAMUEL M. CHASE, City Clerk.

GRAMMAR SCHOOLS.

In accordance with the recommendation of my predecessor in his last annual report, a modification has been made in the Bartlett School and Green School Districts.

The result has been an equalization of the promotions from the Primaries to the two Grammar Schools.

All the territory bounded by the Merrimack River, Cabot and Merrimack Streets was transferred to the Green School District.

The Highland School has so increased during the year as to necessitate two additional rooms in the old Franklin School building. There are now three rooms of scholars in that building belonging to the Highland School. This portion of the Grammar School has just been connected with the majority of the school by *telephone*. This expedient makes supervision by the master more convenient, or, rather, less inconvenient, than it otherwise would be. Still, dividing a thoroughly graded school into two parts, separated by three-quarters of a mile, is decidedly improper.

Every room of a homogeneous school ought to be inspected daily by the master. Such inspection of the portion of his school in the Franklin School building cannot be expected of the master of the Highland School. A four-room extension of the Grammar School building ought to be constructed at once, or else the school should be divided into distinct schools with two masters.

PRIMARY SCHOOLS.

The number of Primary Schools has been increased during the year from twenty-eight to thirty-two.

The increase, in part, was due to the re-division of the Central Street School. This school last year combined three schools in one, with eight rooms and eight teachers. In July, owing to the unwillingness of the principal to continue in that capacity without an increase of salary, the School Committee voted to sub-divide the school.

There are now three schools, where but one was reckoned before. These are denominated the Central Street School, the Chapel Street School and the Cottage Street School.

The Weed Street and Fourth Street Schools are new schools, in fact as well as in name.

The number of scholars having continued to diminish in the Mann School, one of the rooms of that school has been closed, and Miss Crowley was transferred to the Fourth Street School in Centralville.

DISTRIBUTION OF TIME IN THE GRAMMAR AND PRIMARY SCHOOLS.

Some variation has been found necessary in the assignment of time for each study in these schools. By vote of the Board, ten minutes each day has been added to the time devoted to recesses.

The following table contains a statement of the time set apart for each branch. The first three years include the course of the Primary Schools. The last six years, from the fourth to the ninth years, inclusive, apply to the Grammar Schools.

TIME IN MINUTES FOR EACH EXERCISE EACH WEEK.

YEAR.	9	8	7	6	5	4	3	2	1
Reading.....	150	170	190	230	260	300	480	520	} 720
Spelling.....	80	80	100	100	100	120	130	130	
Language.....	220	220	220	240	230	170	130	130	} 160
Composition.....	60	60	60	60	60	60	50	50	
Writing.....	80	80	80	110	110	110	110	110	110
Arithmetic (mental and written),	350	320	310	310	290	290	270	230	180
Geography.....	140	140	140	170	170	170			
History.....	140	150	120						
Physiology.....	40	40	40	40	40	40	30	30	30
Drawing.....	60	60	60	60	60	60	60	60	60
Music.....	60	60	60	60	60	60	60	60	60
General Exercises.....	30	30	30	30	30	30	30	30	30
Opening Exercises.....	30	30	30	30	30	30	30	30	30
Recesses.....	120	120	120	120	120	120	180	180	180

The annual examination of applicants for certificates of qualification to teach was held February 22nd. Of the thirty examined, nineteen were awarded certificates. Subsequently, on July 23rd, other applicants were examined under the direction of the Committee on Teachers. Four were found qualified, and, in accordance with the vote of the full Board, received certificates.

CHANGES IN SCHOOLS.

RESIGNED.

	Term of Service.
M. Jennie Keese High School	8 years.

TRANSFERRED.

Cyrus W. Irish, from Pawtucket School to High School.
 Mary B. McGovern, from London Street to Weed Street School.
 Marietta F. Crowley, from Mann School to Fourth Street School.

ELECTED.

Walter E. Owen	Teacher of Music.
Nellie T. Gilday	assistant Cabot Street School.
Margie F. Marren	assistant Colburn School.
Mary B. McGovern	Weed Street School.
Fannie B. Edwards	assistant Highland School.
Nellie A. Coburn	assistant Highland School.
Elizabeth A. Hart	assistant Varnum School.
Julia A. Williams	assistant Varnum School.

PORTRAITS OF DR. JOHN O. GREEN AND DR. ELISHA BARTLETT.

Most excellent portraits of Dr. John O. Green and Dr. Elisha Bartlett were received in April last, accompanied by the following communication:—

LOWELL, April 25, 1886.

To the Superintendent of Schools, Lowell, Mass.:—

DEAR SIR:—The late Dr. John O. Green, by a memorandum, desired that the portrait of himself, by Mr. Thomas B. Lawson, should be presented to the Green School, and that of the late Dr. Elisha Bartlett, by the same artist, to the Bartlett School.

Accompanying this are the two portraits, and I beg their acceptance by the City for the purpose designated as memorials of the interest always taken by the donor in the cause of education.

Very respectfully yours,

J. ORNE GREEN.

No. 91 Pawtucket Street.

The portraits and letter of J. Orne Green, M. D., were presented to the School Committee at the next regular meeting and the following resolutions were unanimously adopted:—

RESOLUTIONS.

Resolved, By the School Committee of the City of Lowell, assembled, as follows:

That, with great pleasure we accept the portraits of Dr. John O. Green and Dr. Elisha Bartlett, presented to this Board by the late Dr. Green, through his son, John Orne Green, M. D.

Resolved, That the portrait of Dr. John O. Green be hung in the principal's room in the Green School house, and the portrait of Dr. Elisha Bartlett be hung in the principal's room of the Bartlett School house.

In accordance with the wish of the donor, whose name, with that of the lamented Dr. Theodore Edson, stands at the head of the roll of the founders of the Lowell schools, the portraits have been presented to the designated schools.

After a service of less than two years, in March last, the schools of Lowell suffered a serious loss in the election of my predecessor, Mr. George H. Conley, to the position of Supervisor in Boston.

It is but justice to say of Mr. Conley that he was thoroughly equipped for the discharge of the multiform duties of the office, which he could not fail to admirably fill. He developed an unusual faculty for executive work. By nature he was an organizer. In a comparatively brief period he re-organized, classified and graded anew the Lowell schools upon their present basis. With great tact, discretion, and, withal, with energy and effectiveness, he supplemented the life-long conscientious and successful work of his lamented predecessor.

Upon his departure, the School Committee unanimously adopted the following resolutions:—

RESOLUTIONS ON THE RESIGNATION OF SUPERINTENDENT

GEO. H. CONLEY.

Whereas, After two years' service as Superintendent of Public Schools in this city, Mr. Geo. H. Conley is called to a wider field of duty in a similar capacity in the city of Boston, therefore,

Resolved, That the School Board receives his resignation with sincere regret.

Resolved, That we recognize the ability and faithfulness with which he has served the schools of our city. With an enthusiasm regulated by wisdom, and a zeal moderated by prudence, he stepped into the difficult place made vacant by the death of the lamented Superintendent Morrill, and has succeeded in far more than realizing the expectations of his friends. With patient yet persistent perseverance, he has labored to secure every possible object that promised the improvement of our schools, and their condition today testifies to the large measure of success achieved.

Progressive in his views, he has taken no step and secured no changes that have not operated to the great advantage of the schools. With rare tact he has succeeded in winning the profound respect of our teachers, creating in their breasts a greater degree of enthusiasm for their work.

Resolved, That we recognize and heartily appreciate the uniform kindness, courtesy and gentlemanly bearing of Mr. Conley in all his relations to our schools and to the Board.

Resolved, That our kindest wishes go with him to his new field of labor, and that he has our assurance of confidence in a success there as great as he has achieved here.

Resolved, That these resolutions be spread upon the records of the School Board and a copy of them presented to Mr. Conley.

Respectfully submitted,

RANSOM A. GREENE,
WALTER H. LEIGHTON,
STEPHEN J. JOHNSON,

Committee on Resolutions.

In closing this report, I desire to acknowledge gratefully the co-operation and support accorded me by the Supervisor

of Evening Schools, the Truant Commissioners, the teachers of Lowell and the members of the School Committee.

Respectfully submitted,

GEO. F. LAWTON,

Supt. of Schools.

REPORT OF THE TRUANT COMMISSIONERS.

THE TRUANT COMMISSIONERS, in submitting their report, have nothing new to offer, as their duties are the same from year to year.

They find that the cause for absence among the scholars is much the same as last year: lack of proper clothing in winter months, and being detained at home by parents, who are obliged to leave young children in the care of others who are older, while they (the parents) are away from home, employed for the most part in the mills.

Yet there seems to be an increased desire on the part of the parents to keep their children in school steadily, which is gratifying to the Truant Officers and to the teachers as well, and which cannot fail to be productive of good to all concerned, while the attendance at school shows an increase in the monthly reports.

With the introduction of free text-books and the handling of all the supplies that go into our public schools, the duties of the Commissioners have materially increased.

One of the needs of the present time is better facilities for handling the books and supplies that pass through their hands, as everything has to be carried up two flights of stairs, and sometimes up three flights, and then down again as the needs of the teachers require. A room on the ground floor, in some suitable place, would very materially assist the Commissioners in that direction and make it possible for them to fill the orders from teachers with greater promptness.

They have endeavored to stop the practice of obtaining mill certificates fraudulently, as practised by a considerable number of children, who will obtain a certificate giving their age as 14, 15, or 16 years, as the case may be, and giving the same to a child less than 12 years of age; and in their endeavors they have been assisted by the State Inspector, Mr. John T. White, and by his advice are to have "Employment Tickets" issued to all the mills of the city, which shall have to be signed by the overseer to whom the child has applied for a place to work, giving a description of the age, height, complexion, color of hair and eyes, etc. The child will be required to present the same to the Truant Commissioners on his application for a certificate, and the child must correspond with the description on the "Employment Ticket." The ticket will be securely fastened to the certificate bearing the signature of one of the Truant Commissioners, both of which will be given to the overseer by whom the child is to be employed.

No certificates will be issued unless those applying shall present an "Employment Ticket" as evidence of the fact that they are the ones who desire the certificates for themselves and not for others.

The Board of Health have reported 36 cases of scarlet fever and 50 cases of diphtheria, and the officers have endeavored to assist them in preventing the spread of the same among the scholars.

They desire to thank the School Committee for their courtesy and kindness.

Respectfully submitted,

BICKFORD LANG,
WILLIAM H. BIRMINGHAM,
JOHN F. WILLIAMS.

REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1886.

1886.

	Absentees.	Truants.	New Scholars.	Wandering about the Streets.	Working without Certificate.	Juvenile Offenders.	Total Number of Cases Investigated.	Arrested.	Sentenced to Reform School.	Placed on Probation.	Visited Second Time.	Visited Third Time.	Working Certificates Issued (14 to 16 years).	Working Certificates Approved (12 to 14 yrs.)
January.....	25	10	0	1	2	0	35	4	3	1	2	3	94	38
February.....	39	29	0	0	1	0	69	4	1	3	1	0	98	43
March.....	70	23	0	0	1	1	95	3	1	2	2	3	134	71
April.....	79	14	0	0	0	3	96	1	0	1	4	1	121	65
May.....	58	12	0	0	1	1	72	1	0	1	5	2	108	48
June.....	62	27	0	5	2	0	96	14	6	8	2	6	121	98
July.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36	51
August.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75	5
September.....	81	24	2	7	0	1	115	10	5	5	2	1	398	52
October.....	33	16	3	10	4	4	70	15	8	7	1	5	168	26
November.....	74	24	2	3	3	1	107	6	4	2	2	1	186	11
December.....	53	4	2	2	2	1	64	1	1	0	2	1	119	16
Totals.....	574	195	9	28	16	12	822	59	29	30	23	23	1658	524

APPENDIX.

APPENDIX.

A.

ROLL OF TEACHERS.

GIVING NAME, GRADE, RESIDENCE, DATE OF ELECTION, AND SALARY.

HIGH SCHOOL.

Kirk and Anne Streets.

FRANK F. COBURN, Master, <i>Science</i> , 162 Fletcher Street	1880	\$2,200
FRANK B. SHERBURNE, <i>Language</i> , 58 Dover Street	1883	1,800
CYRUS W. IRISH, <i>Science</i> , 162 Fletcher Street	1885	1,500
MARY A. WEBSTER, <i>Language and Mathematics</i> , 17 Varney Street	1860	800
MARIETTA MELVIN, <i>Language</i> , 381 Merrimack Street	1859	700
ELIZABETH MCDANIELS, <i>Language and Literature</i> , 162 Stackpole Street,	1868	700
HARRIET C. HOVEY, <i>Language</i> , 12 Fourth Street	1870	700
CHARLOTTE E. DRAPER, <i>Language and Science</i> , Belmont Avenue, corner Talbot Street	1870	700
ALICE J. CHASE, <i>Science and Mathematics</i> , 158 Stackpole Street	1877	700
SUSIE L. D. WATSON, <i>Mathematics and English</i> , 31½ Dutton Street	1885	650
MARY G. STEVENS, <i>Mathematics and English</i> , 11 Alder Street,	1885	650
ADELAIDE BAKER, <i>Language</i> , 98 Sixth Street	1885	650
JENNIE L. ALLEN, <i>Mathematics and English</i> , 55 Branch Street	1885	650

BARTLETT GRAMMAR SCHOOL.

Corner of Hancock Avenue and Clark Street.

SAMUEL BEMENT, Master, 428 Merrimack Street	1851	\$1,800
MARIANNE B. KENT, 1st, 428 Merrimack Street	1859	600

ABBIE E. FRENCH, <i>2d</i> , 40 Marion Street	1874	\$600
BELLE F. BATCHELDER, <i>3d</i> , 7 Arlington Street	1883	600
BELLE A. PRESCOTT, <i>4th</i> , 29 Mt. Washington Street.	1878	600
M. IDA HOWE, <i>5th</i> , 54 Methuen Street	1873	600
FRANCES M. TALBOT, <i>5th</i> , 29 A Street	1882	600
LOLA CHENEY, <i>6th</i> , 142 Worthen Street	1882	600
AMY L. TUCKE, <i>6th</i> , 92 Fletcher Street	1879	600

Morrill School.

Common and Adams Streets.

ELLEN F. COUGHLAN, Prin., <i>2d</i> and <i>3d</i> , 15 Austin Street	1853	\$600
NELLIE M. BROWN, <i>1st</i> and <i>2d</i> , 158 Fletcher Street	1865	600
ISABELLA V. MCANULTY, <i>4th</i> and <i>5th</i> , 7 Hurd Street	1867	600
CHARLOTTE E. BROWN, <i>6th</i> , 158 Fletcher Street	1870	600

School Street School.

School Street, between Pawtucket and Bowers Streets.

ANNIE S. HARLOW, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 23 Pawtucket Street	1873	\$600
M. CARRIE STILES, <i>4th</i> , <i>5th</i> and <i>6th</i> , 32 Varney Street	1878	600

Rock Street School.

Corner of Rock and Willie Streets.

SARAH E. SCALES, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 10 Ralph Street	1866	\$600
ELLEN M. WHITE, <i>4th</i> , <i>5th</i> and <i>6th</i> , 89 Grove Street	1863	600

BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 5 Fenwick Street	1884	\$1,800
FRANCES M. WEBSTER, <i>1st</i> , 17 Varney Street	1873	600
LAURA F. HOWE, <i>2d</i> , 166 Stackpole Street	1856	600
NELLIE KEEFE, <i>3d</i> and <i>4th</i> , 41 Cedar Street	1879	600
NELLIE F. MURPHY, <i>4th</i> , 50 Elm Street	1878	600

CARRIE A. MILES, <i>5th</i> , 18 Tyler Street	1882	\$600
KATIE E. KELLEY, <i>5th</i> , 423 Central Street	1883	600
DELIA T. BRADY, <i>6th</i> , 375 Central Street	1877	600
MARY L. MCSORLEY, <i>6th</i> , 20 Aslf Street	1879	600

Lyon Street School.

Corner of Lyon and Central Streets.

KATIE F. FAY, Prin, <i>1st</i> and <i>2d</i> , 94 Stackpole	1880	\$600
ALICE T. LEE, <i>3d</i> and <i>4th</i> , 113 Lawrence Street	1878	600
MARY J. MCCARRY, <i>5th</i> , 39 Newhall Street	1881	600
NELLIE A. HUNT, <i>6th</i> , 1 Linden Street	1884	600

Carter Street School.

Carter Street.

BELLE T. VINAL, Prin., <i>1st</i> and <i>2d</i> , 6 Simpson Place	1873	\$600
GEORGIA A. HARNDEN, <i>3d</i> and <i>4th</i> , 39 Pleasant Street	1885	500
CORNELIA M. DAVIS, <i>5th</i> and <i>6th</i> , 40 Rock Street	1871	600

Agawam Street School.

Corner of Agawam and Barrington Streets.

MARY McLAUGHLIN, Prin., <i>1st</i> and <i>2d</i> , 234 Lawrence Street	1879	\$600
ANNIE M. LEE, <i>3d</i> and <i>4th</i> , 113 Lawrence Street	1885	500
BRIDGET T. MAGUIRE, <i>5th</i> and <i>6th</i> , 22 Lyon Street	1882	600

London Street School.

Corner of London and West Streets.

LIZZIE R. MCGUIRE, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 22 Lyon Street	1884	\$600
MARY A. LYNCH, <i>4th</i> , <i>5th</i> and <i>6th</i> , 31 Abbott Street	1885	500

Weed Street School.

Corner of Gorham and Weed Streets.

MARY B. MCGOVERN, Prin., <i>4th</i> , <i>5th</i> and <i>6th</i> , 13 Pearl Street	1886	\$450
AGNES M. FOLEY, <i>1st</i> , <i>2d</i> and <i>3d</i> , 31 Newhall Street	—	—

COLBURN GRAMMAR SCHOOL.

Lawrence Street.

GEO. W. HOWE, Master, 54 Methuen Street	1880	\$1,800
ELIZABETH W. FROST, 1st, Fairmount Street	1857	600
SARAH J. CROSBY, 2d, 151 Gorham Street	1868	600
SUSAN M. ANDREWS, 3d and 4th, 42 Walnut Street	1864	600
MARY A. HAMMILL, 4th, 24 Linden Street	1875	600
ELIZABETH A. BALCH, 5th, 133 E. Merrinack Street	1873	600
KATE G. McLAUGHLIN, 5th, 62 Suffolk Street	1878	600
ARVILLA L. READER, 6th, 106 Appleton Street	1871	600
MARGIE F. MARREN, 6th, 31 Clark Street	1886	450

Central Street School.

Central Street, opposite Hudson Street.

ELIZA COWLEY, Prin, 1st, 178 Lawrence Street	1857	\$600
CHARLOTTE McDANIELS, 2d, 162 Stackpole Street	1878	600
KATIE F. LAWLOR, 3d and 4th, 60 Church Street	1885	500
BLANCHE E. FAY, 5th and 6th, 44 Elm Street	1885	500

Chapel Street School.

Chapel Street, opposite Linden Street.

KATIE E. MCOWEN, Prin., 1st, 2d and 3d, 115 Gorham Street	1882	\$600
HATTIE A. KNOWLES, 4th, 5th and 6th, 490 Middlesex Street	1882	600

Cottage Street School.

Corner of Cottage and Chapel Streets.

LUCY F. CARLETON, Prin., 1st, 2d and 3d, 42 Chapel Street	1884	\$600
MAGGIE A. HARRIHAN, 4th, 5th and 6th, 20 Marshall Street	1882	600

Ames Street School.

Corner of Lawrence and Ames Streets.

AMANDA M. HADLEY, Prin., 1st and 2d, 63 Grand Street	1870	\$600
KATIE F. MURPHY, 3d and 4th, 1 Daly Street	1885	500
MARY E. DREW, 5th, 28 Wamesit Street	1868	600
LIZZIE M. HADLEY, 6th, 177 Moody Street	1869	600

Church Street School.

Church Street, near George Street.

MARY J. ALGER, Prin., <i>4th, 5th and 6th</i> , 54 Chapel Street	1868	\$600
ABBIE V. WHEELER, <i>1st, 2d and 3d</i> , 185 Moody Street	1879	600

EDSON GRAMMAR SCHOOL.

Highland Street.

C. W. BURBANK, Master, 92 Bowers Street	1872	\$1,800
MARY E. STONE, <i>1st</i> , 13 Cottage Street	1874	600
MARIA C. R. SWAN, <i>2d</i> , 75 Appleton Street	1862	600
NETTIE E. CARLETON, <i>3d</i> , 42 Chapel Street	1867	600
ANNA A. SARGENT, <i>4th</i> , 152 Appleton Street	1864	600
MARY F. CARLETON, <i>4th</i> , 42 Chapel Street	1856	600
FANNIE A. SCRIPTURE, <i>5th</i> , 269 Central Street	1873	600
ROSALIE T. BURNS, <i>5th</i> , 7 Prescott Corp.	1878	600
CARRIE STONE, <i>5th and 6th</i> , 13 Cottage Street	1885	500
MARY A. BALCH, <i>6th</i> , 126 Appleton Street	1865	600
KATE F. HAYES, <i>6th</i> , 13 Floyd Street	1879	600

Elliott Street School.

Corner of Middlesex and Elliott Streets.

ELLEN A. STILLINGS, Prin., <i>4th and 5th</i> , 107 Howard Street	1875	\$600
MARIETTA McEVoy, <i>1st and 2d</i> , 5 Agawan Street	1881	600
NELLIE T. O'GRADY, <i>2d and 3d</i> , 59 Newhall Street	1881	600
WINIFRED HAGGERTY, <i>6th</i> , 77 Chestnut Street	1884	600

Howard Street School.

Howard Street, between Chelmsford and Hale Streets.

ELLEN A. BRIDGE, Prin., <i>1st and 2d</i> , 54 Chapel Street	1857	\$600
MARION E. GREENE, <i>3d and 4th</i> , 113 Howard Street	1884	600

HOWARD STREET ANNEX.

Grand Street, between Westford and Middlesex Streets.

IDA J. FLINT, <i>5th and 6th</i> , 142 Liberty Street	1880	\$600
JENNIE M. BENNETT, <i>5th and 6th</i> , 246 Westford Street	1885	500

Charles Street School.

Charles Street, between Gorham and Chapel Streets.

ALICE T. OWENS, Prin., 1st, 2d and 3d, 45 Walnut Street . . .	1878	\$600
ABBY L. SARGENT, 4th, 5th and 6th, 174 Stackpole Street . . .	1873	600

GREEN GRAMMAR SCHOOL.

Merrimack Street.

A. L. BACHELLER, Master, 287 Central Street	1874	\$1,800
RUTH B. BAILEY, 1st, 200 Moody Street	1871	600
ANNIE E. RICHARDSON, 2d, 63 Bowers Street	1871	600
LIZZIE A. NOLAN, 3d, 33 Anne Street	1876	600
CLARA A. HANNAFORD, 4th, 112 Salem Street	1869	600
KATE F. CASSIDY, 5th, Mt. Grove Street	1883	600
LENA A. GOOKIN, 5th, 5 Walden Street	1880	600
LULIE A. HUNTOON, 6th, 11 Butterfield Street	1882	600
ELLA J. CARLETON, 6th, 316 Bridge Street	1882	600

Mann School.

Corner of Lewis Street and Broadway.

MARY L. HILL, Prin., 2d, 126 Worthen Street	1858	\$600
MINNIE C. SMITH, 1st, 139 Appleton Street	1877	600
ELLEN A. CORBETT, 3d and 4th, 65 Gorham Street	1878	600
ELLA E. GARDNER, 5th and 6th, 4 Mt. Washington Street	1871	600
LILLA J. GREENHALGE, 5th and 6th, 10 Ash Street	1871	600

Kirk Street School.

Corner of Kirk and Lee Streets.

MERCENA F. WHITEHORN, Prin., 1st, 2d and 3d, 389 Beacon Street .	1877	\$600
LAURA H. PALMER, 4th, 5th and 6th, 167 Bridge Street	1882	600

Cabot Street School.

Corner of Cabot and Ford Streets.

LOTTIE M. FURNALD, Prin., 3d and 4th, 20 Mt. Washington Street .	1880	\$600
MARY A. BEARD, 1st and 2d, 297 Westford Street	1841	600
MARTHA A. NEAL, 5th and 6th, 11 Dodge Street	1847	600
NELLIE T. GILDAY, 5th and 6th, 14 Varney Street	1886	450

Cheever Street School.

Cheever Street.

MARY J. MEADE, <i>ungraded</i> , 1 Clark Street	1880	\$600
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HIGHLAND GRAMMAR SCHOOL.

West Pine Street.

CHAS. W. MOREY, Master, 113 Smith Street	1880	\$1,800
ALICE M. CLARKE, <i>1st</i> , 46 Chapel Street	1878	600
ABBIE F. WOODWARD, <i>2d</i> , 73 Branch Street	1869	600
ADELAIDE F. BENNETT, <i>3d</i> , 129 Walker Street	1882	600
LUELLA A. WARDWELL, <i>3d</i> and <i>4th</i> , 30 School Street	1870	600
FANNIE M. CLARK, <i>4th</i> , 30 School Street	1874	600
NELLIE A. COBURN, <i>4th</i> , 297 Westford Street	1886	450
ESTELLE L. WHITNEY, <i>5th</i> , 101 Chapel Street	1885	500
FANNIE B. EDWARDS, <i>5th</i> , 148 Hale Street	1886	450
EDITH L. MONROE, <i>6th</i> , Billerica	1885	500
HATTIE B. FRYE, <i>6th</i> , 26 Walker Street	1882	600
MARY S. GERRY, <i>6th</i> , 50 School Street	1884	600

Franklin School.

Corner of Branch and Middlesex Streets.

SARAH J. FISKE, Prin., <i>1st</i> and <i>2d</i> , 134 Appleton Street	1866	\$600
LUZZIE S. LOWE, <i>3d</i> and <i>4th</i> , 3 Nichols Street	1857	600
MARION J. STEVENSON, <i>5th</i> , 45 Princeton Street	1878	600
KATIE G. JONES, <i>6th</i> , 49 Andover Street	1880	600

Plain Street School.

Corner of Plain and Powell Streets.

LAURA E. LEE, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 141 Grand Street	1873	\$600
FLORA H. SPRAGUE, <i>4th</i> , <i>5th</i> , and <i>6th</i> , 14 School Street	1882	600

Dover Street School.

Dover Street, between Middlesex and Grove Streets.

CLARA B. HORNE, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 20 South Highland Street	1877	\$600
CLEMENTINE H. BOWERS, <i>4th</i> , <i>5th</i> and <i>6th</i> , 18 Loring Street	1876	600

Powell Street School.

Powell Street, near Liberty Street.

VIOLA A. HAMBLETT, Prin., <i>4th, 5th and 6th</i> , 60 School Street . . .	1876	\$600
CARRIE J. BAILEY, <i>1st, 2d and 3d</i> , 16 Loring Street . . .	1884	600

Middlesex Village School.

ELIZABETH H. COTTING, <i>ungraded</i> , 64 Baldwin Street . . .	1876	\$600
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MOODY GRAMMAR SCHOOL.

Corner High and East Merrimack Streets.

WILLIAM S. GREENE, Master, 195 Westford Street . . .	1883	\$1,800
ALICE M. SANBORN, <i>1st</i> , 27 Clay Street . . .	1881	600
MARY E. WAY, <i>2d</i> , 22 Tyler Street . . .	1858	600
CARRIE F. SMITH, <i>3d</i> , 82 East Merrimack Street . . .	1883	600
CLARA A. EATON, <i>4th</i> , 69 Myrtle Street . . .	1882	600
LAURA J. PINDAR, <i>5th</i> , 35 Tyler Street . . .	1856	600
FRANCES E. HARDMAN, <i>6th</i> , 158 Stackpole Street . . .	1873	600
FRANCES E. GARITY, <i>6th</i> , 8 Third Street . . .	1874	600

Pond Street School.

Corner of High and Pond Streets.

AURELIA L. HOWE, Prin., <i>1st, 2d and 3d</i> , 166 Stackpole Street . . .	1844	\$600
MARIETTA HILL, <i>4th, 5th and 6th</i> , 90 Chestnut Street . . .	1870	600

High Street School.

High Street, between Chestnut and Everett Streets.

LUCRETIA A. DAY, Prin., <i>1st, 2d and 3d</i> , 274 Central Street . . .	1864	\$600
CLARA A. EMERSON, <i>4th, 5th and 6th</i> , 96 Appleton Street . . .	1869	600

Fayette Street School.

Fayette Street, between Chestnut and Everett Streets.

NELLIE KOHAWN, <i>ungraded</i> , Tenth Street . . .	1877	\$600
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PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

NELLIE MACDONALD, Temporary Prin., <i>1st</i> and <i>2d</i> , 10 Marsh Street .	1878	\$1,100
CELESTIA P. CHASE, <i>3d</i> and <i>4th</i> , 131 School Street	1867	600
JULIA M. HEALEY, <i>5th</i> and <i>6th</i> , 80 Bowers Street	1870	600

Mammoth Road School.

Pawtucket School Building.

ELLEN M. HOLDEN, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 3 South Loring Street .	1876	\$600
ROSE J. DELANEY, <i>4th</i> , <i>5th</i> and <i>6th</i> , 93 Market Street	1885	500

Varnum Avenue School.

LAURA J. GOULD, <i>ungraded</i> , Varnum Avenue	1874	\$600
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VARNUM GRAMMAR SCHOOL.

Myrtle Street, Centralville.

A. K. WHITCOMB, Master, 41 Methuen Street	1878	\$1,800
GEORGINA F. VINTON, <i>1st</i> , 32 Fourth Street	1872	600
HARRIET BRADLEY, <i>2d</i> , 38 Fourth Street	1854	600
ADA M. MARTIN, <i>2d</i> , 5 Robbins Street	1882	600
MINNIE F. WING, <i>3d</i> , 47 Hampshire Street	1879	600
SARAH A. BRADLEY, <i>4th</i> , 145 Bridge Street	1857	600
MARIA W. ROBERTS, <i>4th</i> , 43 Third Street	1875	600
ALICE R. KEESE, <i>5th</i> , 4 Richardson Street	1881	600
ELIZABETH A. HART, <i>5th</i> , 6 Varney Street	1886	450
ROSA A. DOWD, <i>6th</i> , 117 River Street	1884	600
JULIA WILLIAMS, <i>6th</i> , 77 French Street	1886	450

West Sixth Street School.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Prin., <i>1st</i> and <i>2d</i> , 1 Myrtle Street	1879	\$600
ELIZA A. DAVIS, <i>2d</i> and <i>3d</i> , 40 Rock Street	1881	600
ELLA E. BRADLEY, <i>4th</i> and <i>5th</i> , 347 Westford Street	1882	600
— — <i>6th</i> , —	—	—

Tenth Street School.

Corner of Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Prin., <i>1st</i> and <i>2d</i> , 78 Tenth Street	1879	\$600
MARTHA A. FRANKLIN, <i>2d</i> and <i>3d</i> , 67 Vernon Street	1866	600
KATHERINE T. LENNON, <i>4th</i> and <i>5th</i> , 4 Willie Avenue	1885	500
ELLA A. BAILEY, <i>6th</i> , 164 Bridge Street	1869	600

River Street School.

River Street, Centralville.

SARA R. SWAN, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 51 Fourth Street	1876	\$600
LIZZIE C. KENNEDY, <i>4th</i> , <i>5th</i> and <i>6th</i> , 66 Hampshire Street	1884	600

Fourth Street School.

Fourth Street, over Engine House.

MARIETTA F. CROWLEY, <i>ungraded</i> , 23 Marion Street	1879	\$600
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TEACHER OF PENMANSHIP.

THOMAS M. GRAVES, 64 Beach Street	1883	\$1,250
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TEACHER OF DRAWING.

HENRY T. BAILEY, 79 Appleton Street	1885	\$1,250
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TEACHER OF MUSIC.

WALTER E. OWEN, 33 Oak Street	1886	\$1,000
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MILITARY INSTRUCTOR.

CAPT. A. A. HANSCOM, 77 Appleton Street	1880	\$250
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B.**SALARIES OF TEACHERS.****HIGH SCHOOL.**

Principal	\$2,200 00
First male assistant	1,800 00
First female assistant	800 00
Other female assistants, first year	600 00
“ “ “ second year	650 00
“ “ “ after second year	700 00

GRAMMAR SCHOOLS.

Principals (males)	\$1,800 00
Assistants, first year	450 00
“ second year	500 00
“ third year and after	600 00
Teacher of penmanship	1,250 00
Teacher of drawing	1,250 00
Teacher of music	1,000 00

PRIMARY SCHOOLS.

Teacher, first year	\$450 00
“ second year	500 00
“ third year and after	600 00

TEMPORARY TEACHERS.

Male teachers, for every school-day's service	\$3 00
Female teachers in High School, for every school-day's service	1 75
Female teachers in other schools, for every school-day's service	1 25

EVENING SCHOOLS.

Principals, High School, per evening	\$5 00
“ Elementary, “ “	2 00
Male assistants, High School, per evening	2 00
Female “ “ “ “ “	2 00
“ “ Elementary Schools, per evening	1 25

C.**TEXT-BOOKS USED IN THE PUBLIC SCHOOLS.**

Hilliard's Readers, Franklin Series.

PRIMARY SCHOOLS.

First Reader.
 Second Reader.
 Third Reader.
 Franklin Primary Arithmetic.

Miss Stickney's Child's Book of Language.
 Monroe's Reading Charts.
 Primary Music Reader.
 Mason's Music Chart.

GRAMMAR SCHOOLS.

Fourth Reader.
 Intermediate Reader.
 Fifth Reader.
 Bradbury's Eaton's Practical Arithmetic.
 Greene's Grammar.
 Knox and Whitney's Elementary Lessons in English.
 Swinton's Elementary Geography.
 Swinton's Grammar School Geography, New England Edition.
 Higginson's Young Folks' History of the United States.
 Worcester's New Pronouncing Spelling Book.
 Worcester's Comprehensive Dictionary.
 Thompson's Intellectual Arithmetic.
 Duntonian Writing Books.
 Smith's Drawing Books.
 Hooker's Child's Book of Nature, permitted as a reading book.
 Goodrich's Child's Book of United States History.
 Intermediate Music Reader.
 Fourth Abridged Music Lessons.

HIGH SCHOOL.

Allen and Greenough's Latin Grammar.
 Leighton's Latin Lessons.
 Allen and Greenough's Cæsar.
 Allen and Greenough's Virgil.
 Allen and Greenough's Cicero.
 Allen and Greenough's Ovid.
 Allen's Latin Composition.
 White's Latin Lexicon.
 Goodwin's Greek Grammar.
 White's Greek Lessons.
 Goodwin's Greek Reader.
 Homer.
 Liddell and Scott's Greek Lexicon (abridged).
 Bocher's Otto's French Grammar.
 Bocher's Otto's French Reader.
 Fisher's Easy French Readings.
 Bocher's College Plays.
 James and Mole's French Dictionary.
 Otto's German Grammar.
 Otto's German Reader.
 Methode Berlitz.
 Adler's German Dictionary.
 Eaton's Practical Arithmetic.
 Eaton's High School Arithmetic.
 Eaton's Algebra.

Bradbury's Trigonometry.
Davies' Surveying.
Greene's English Grammar.
Quackenbos' First Lessons in English Composition.
Class Book of Prose and Poetry.
Kellogg's Rhetoric.
Arnold's English Literature.
Underwood's Hand Book of American Authors.
Selected American Poems.
Selected Ballads and Lyrics.
Swinton's Outlines of History.
Curnow's History of England.
Leighton's History of Rome.
Pennell's History of Greece.
Pennell's History of Rome.
Martin's Civil Government.
Winslow's Intellectual Philosophy.
Cooley's Natural Philosophy.
Avery's Natural Philosophy.
Kiddle's Elementary Astronomy.
Avery's Chemistry.
Eliot and Storer's Manual of Chemistry.
Eliot and Storer's Qualitative Analysis.
Dana's Geological Story.
Wood's Botanist and Florist.
Hutchinson's Physiology.
Warren's Physical Geography.
Tozer's Classical Geography.
Meserve's Book-keeping.
Eichberg's Music Reader.
Upton's Infantry Tactics.
Stewart's Elementary Physics.
Todhunter's Algebra.
Wentworth's Geometry.
Bryce's *Æneid* (last six books).

D.

COURSE OF STUDY FOR THE PRIMARY SCHOOLS.

FIRST YEAR.

First Half—Monroe's Charts, and Franklin First Reader. Begin with words written upon the blackboard, using the names of familiar objects, and words expressing familiar acts.

Combine words into groups and sentences.

Pay particular attention to *tones* and *inflection*.

Spell the words in columns, by sounds.

Develop the idea of number to ten, by the use of objects. Count to one hundred on the numeral frame.

Teach the construction of letters and figures, and the simplest form of script letters, using slate and blackboard.

Second Half—Monroe's Charts, and First Reader. Spell by sounds.

Write words, groups of words, and sentences upon the blackboard, and require pupils to copy upon the slate. Give special attention to the forms of the letters.

Add and subtract small numbers, using the numeral frame and objects.

Teach Roman numerals to L.

Follow the Grube Method in numbers as far as to 4.

Practice object teaching, using such objects as are familiar to the child.

SECOND YEAR.

First Half—Second Reader. Practice "Enunciation Exercises" daily.

Spell, by letters and by sounds, words in columns and in reading lessons.

Teach the simplest form of script letters.

Teach Arithmetic orally. Grube Method as high as 8.

Teach Roman numerals to M.

Second Half—Second and Third Readers. Practice "Enunciation Exercises" daily.

Continue to teach the simplest form of script letters, and write sentences from dictation upon the slate.

Teach Arithmetic, using the Franklin Primary, and see that the pupils read the questions fluently and correctly before solving them. Teach multiplication table to 8×8 .

THIRD YEAR.

First Half—Third Reader. Daily practice of exercise in enunciation. Spell words in columns and in reading lessons, by letters and by sounds. Teach the meaning of the words found in the reading lessons, and require scholars to use their own language in defining. Correct all faults in expression.

Teach all script letters, and require words and sentences to be written from dictation, upon paper.

Review the Arithmetic, taught during the second year, by oral questions similar to those in the text-books, and advance as far as practicable. Teach multiplication table as far as 10×10 .

Second Half—Third Reader. Continue exercises in enunciation, spelling, definitions, etc.

Use Miss Stickney's Child's Book of Language No. 1.

Review and complete the Arithmetic. Teach multiplication table to 12×12 .

Drawing should be taught in all the classes except first half of first year. In drawing and singing, follow the directions of the special teachers.

In each school a few minutes should be devoted at every session to physical exercises.

Monroe's Charts may be used at pleasure throughout the course.

E.

GRAMMAR SCHOOLS.

FOURTH YEAR.

READING.—Fourth Reader. Especial attention should be given the Introductory Exercises and the lessons in spelling and defining at the beginning of each reading lesson.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, to page 29; *Second Half*, from page 29 to 47.

ARITHMETIC.—From dictation; numeration and notation, addition and multiplication; amounts not to exceed a million. *Second Half*, from dictation; numeration and notation, addition and multiplication, subtraction and long division, not to exceed three periods. In subtraction, not more than two figures in the minuend to be less than the figures below them, and in division the divisor not to exceed 25.

LANGUAGE.—Elementary Lessons in English.

GEOGRAPHY.—Swinton's Elementary. *First Half*, to page 40; *Second Half*, from page 40 to 64.

HISTORY.—Child's Book of History as a reader.

MENTAL ARITHMETIC.—Thompson's Intellectual. Omit subtraction. *First Half*, to page 31; *Second Half*, including subtraction, from page 31 to 38.

FIFTH YEAR.

READING.—Fourth Reader, with daily drill on Introductory Exercises, spelling and defining.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 47 to 69; *Second Half*, from page 69 to 93.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, to page 60; *Second Half*, from page 60 to 87.

LANGUAGE.—Elementary Lessons in English. *First Half*, to page 67; *Second Half*, from page 67 to 95.

GEOGRAPHY.—Swinton's Elementary Geography. *First Half*, from page 64 to 82; *Second Half*, from page 82 to end.

HISTORY.—Child's Book of History as a reader.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, to page 42; *Second Half*, from page 42 to 65.

SIXTH YEAR.

READING.—Hilliard's Intermediate, with drill on Introductory Exercises, daily. Spelling and defining.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 93 to 111; *Second Half*, from page 111 to 131.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 89 to 102; *Second Half*, from page 102 to 134.

LANGUAGE.—Elementary Lessons in English. *First Half*, from page 95 to 137; *Second Half*, finish.

GEOGRAPHY.—Swinton's Grammar School Geography. *First Half*, to page 24; *Second Half*, from page 24 to 50.

HISTORY.—Child's Book of History as a reading book.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 60 to 80; *Second Half*, omitting Compound Numbers, from page 80 to 108.

SEVENTH YEAR.

READING.—Hilliard's Intermediate Reader, with drill on exercises to secure distinct articulation and correct pronunciation and expression.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 131 to 139; *Second Half*, from page 139 to 145.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 134 to 160; *Second Half*, from page 160 to 180.

GRAMMAR.—Greene's Introduction. Review Elementary English Lessons first half of year. *First Half*, to page 54; *Second Half*, from page 54 to 88.

GEOGRAPHY.—Swinton's Grammar School. *First Half*, from page 50 to 70; *Second Half*, from page 70 to 86.

HISTORY.—Higginson's Young Folks' History of the United States, to be taught "by reading and familiar conversation." *First Half*, to page 74; *Second Half*, from page 74 to 142.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 90 to 108; *Second Half*, omitting Interest, etc., from page 108 to 127.

EIGHTH YEAR.

READING.—Fifth Reader, with drill on Introductory Treatise. Spelling and definitions.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 145 to 155; *Second Half*, from page 155 to 163.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 180 to 204; *Second Half*, from page 204 to 229.

GRAMMAR.—Greene's Introduction. *First Half*, from page 88 to 123; *Second Half*, from page 123 to 149.

GEOGRAPHY.—Swinton's Grammar School. *First Half*, from page 86 to 106; *Second Half*, from page 106 to the end.

HISTORY.—Higginson's History of United States. *First Half*, from page 142 to 194; *Second Half*, from page 194 to 248.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, omitting Bank Discount, from page 117 to 126; *Second Half*, from page 123 to 133.

NINTH YEAR.

READING.—Fifth Reader. Systematic teaching of the Introductory Treatise.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 163 to end; *Second Half*, review whole book.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 229 to 263; *Second Half*, review from beginning.

GRAMMAR.—Greene's Introduction. *First Half*, from page 149 to end; *Second Half*, review from beginning.

GEOGRAPHY.—Swinton's Grammar School. Review from beginning.

HISTORY.—Higginson's History of United States. *First Half*, from page 248 to 342; *Second Half*, review from beginning.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 133 to end; *Second Half*, review from beginning.

GENERAL DIRECTIONS.

In Arithmetic, mental work to accompany written work daily.

In Geography, discriminate between the important and unimportant details in assigning lessons. Use as reading lessons in the Grammar School Geography, the separate States, the separate countries of South America, of Europe, of Asia, and of Africa.

Spell and define words in the various text-books. Oral spelling should be combined with written spelling, but the latter should predominate. In all spelling exercises pronounce the word but *once*, to induce habits of attention.

Teachers will make frequent reviews of their own work, and also of the *work of preceding years*, for which they will be held responsible in examinations.

Declamation once a month by boys of First and Second Classes.

Compositions each week in every class, Elements of Book-keeping, Writing, Drawing and Music throughout the entire course.

F.

HIGH SCHOOL.

ENGLISH COURSE.

FIRST YEAR. *First Term*—Algebra, Outlines of History, English Composition. *Second Term*—Algebra, English History, Natural Philosophy.

SECOND YEAR. *First Term*—Geometry, Natural Philosophy, Physical Geography, *French*. *Second Term*—Geometry, Chemistry, English Grammar, *French*.

THIRD YEAR. *First Term*—Arithmetic, Rhetoric, English Literature, Astronomy, *French*. *Second Term*—Physiology, Geology, Political Science, *French*.

CLASSICAL COURSE.

FIRST YEAR. *First Term*—Algebra, Latin Grammar and Reader, English Composition. *Second Term*—Algebra, Latin Grammar and Reader, Natural Philosophy.

SECOND YEAR. *First Term*—Cæsar, Natural Philosophy, Geometry, *French*. *Second Term*—Cæsar, Chemistry, Geometry, *French*.

THIRD YEAR. *First Term*—Virgil, Arithmetic, *Chemistry, French*. *Second Term*—Virgil, Rhetoric, Political Science, *French*.

FOURTH YEAR. *First Term*—English Literature, Astronomy, *German*. *Second Term*—English Literature, Geology, Botany, *German*.

COLLEGE COURSE.

FIRST YEAR. *First Term*—Algebra, Latin Grammar and Reader, English Composition. *Second Term*—Algebra, Latin Grammar and Reader, Greek History.

SECOND YEAR. *First Term*—Cæsar, Geometry, Roman History. *Second Term*—Cæsar, Geometry, Greek Grammar and Lessons.

THIRD YEAR. *First Term*—Virgil, Greek Reader, Mathematics. *Second Term*—Virgil, Greek Reader and Composition, Mathematics.

FOURTH YEAR. *First Term*—Cicero, Xenophon, Physics, College French. *Second Term*—Cicero, Herodotus, Physics, College French.

FIFTH YEAR. *First Term*—Latin at sight, Homer, Physics, Chemistry. *Second Term*—Latin Reviews, Greek Reviews, Physics, Botany.

NOTE *a*. Those studies printed in italics are elective.

NOTE *b*. The choice of a study, and change in the choice of a foreign language must be subject to the approval of the principal.

NOTE *c*. Composition, Declamation, Reading, Music and Military Instructions are required throughout the course.

NOTE *d*. Book-keeping is elective.

G.

STATISTICS FROM REPORT OF REFORM SCHOOL.

Pupils attending school January 1, 1886	83
Males under sentence	22
Females under sentence	1
Males not sentenced	48
Females not sentenced	12
Average monthly attendance	83
Average age under sentence	11 years.
Average age not under sentence	8½ years.
Highest number for any one month (in May)	100
Lowest number for any one month (in September)	60
Admitted on sentence	50
Discharged by expiration of sentence	26
Pardoned	6
Released on probation	1
Whole number attending school January 1, 1887	94
Committed for the following offences:—	
Truancy	40
Larceny	4
Vagrancy	4
Stubbornness	2
Birthplace of those under sentence:—	
United States	38
Ireland	4
England	2
Canada	4

Number of times committed:—

For the first time	41
“ “ second time	5
“ “ third time	3
“ “ fourth time	0
“ “ fifth time	1

Division of the twenty-four hours:—

Rise at	5.45 A. M.
Morning prayer	6.00 A. M.
Breakfast	6.30 A. M.
Recess	
School	8.30 to 11.30 A. M.
Recess	
Dinner	12.00 M
Recess	
School	1.30 to 3.30 P. M.
Supper, followed by recess	5.30 P. M.
Evening prayer and hour for retiring	7.15 P. M.

For further information I refer you to the Report of the Overseers of the Poor for the year 1886.

WM. A. LANG,

Principal.

H.

SUMMARY OF THE ANNUAL RETURNS
OF THE
PUBLIC SCHOOLS OF THE CITY OF LOWELL.

FOR THE YEAR ENDING DECEMBER 24TH, 1886.

SCHOOLS.	LOCATION.	No. pupils belonging, Dec. 19, 1886.			Whole No. of pupils on time-book since Jan. 4, 1886.			Average No. of pupils belonging to the schools.			Average daily attendance.			No. entered, not rec'd from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling, for mills.	Number over fourteen years of age.	Between ten and fourteen years of age.	Between six and ten years of age.	Under six years of age.	Per cent. of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.														
High.....	Kirk and Anne Streets.....	172	186	258	264	264	528	174	179	353	165	173	338	10	149	0	0	0	0	512	16	0	0	95
Bartlett (Gram.)...	Cor. Clarke St. and Hancock Ave.....	195	154	349	270	208	478	195	149	344	178	133	311	33	56	26	17	35	10	102	339	37	0	90
Primaries.																								
Morrill.....	Common and Adams Sts.....	93	56	149	197	123	320	97	62	159	90	55	145	69	0	13	23	9	2	4	61	225	30	91
Rock.....	Cor. Willie and Rock Sts.....	40	44	84	67	84	151	41	43	84	39	36	75	56	0	7	16	24	0	0	17	94	40	89
School.....	School St., between Pawtucket and Bowers...	49	57	106	98	99	197	54	56	110	49	49	98	41	0	16	24	20	0	0	3	156	38	90
Bartlett Sch. Dist.	Totals for Primaries.....	182	157	339	362	306	668	192	161	353	178	140	318	166	0	36	63	53	2	4	81	475	108	90

Butler Sch. Dist.	Butler (Gram.).....	Gorham St.....	173	179	352	248	276	524	132	169	321	147	154	301	39	116	14	19	11	56	84	405	35	0	99
	<i>Primaries.</i>																								
	Lyon St.....	Cor. Central and Lyon Sts.....	96	86	182	181	178	359	102	94	196	89	90	179	124	0	31	28	63	8	0	51	240	68	91
	Carter St.....	Carter St.....	79	57	136	131	127	258	88	66	154	81	60	141	41	0	43	30	65	4	2	74	167	13	92
	Agawam St.....	Cor. Agawam and Barrington Sts.....	73	58	131	113	97	210	72	60	132	64	53	117	181	0	29	33	13	4	0	40	140	21	88
	London St.....	Cor. London and West Sts.....	46	42	88	102	80	188	65	44	105	57	40	97	150	0	34	30	38	2	1	20	121	46	89
	Weed St.....	Cor. Gorham and Weed Sts.....	42	32	74	46	35	81	44	32	76	37	31	68	14	0	77	0	1	0	1	11	56	13	89
	Totals for Primaries.....		336	275	611	573	523	1096	371	296	667	328	274	602	510	0	214	121	180	18	4	196	733	163	90
	Colburn (Gram.)....	Lawrence St.....	143	145	288	223	217	440	147	148	295	136	128	204	30	88	16	13	15	40	69	305	56	0	90
	<i>Primaries.</i>																								
Colburn Sch. Dist.	Central St.....	Central St., opposite Hudson.....	167	163	330	261	271	532	165	158	323	147	139	286	117	0	53	53	55	7	0	119	309	104	89
	Anies St.....	Cor. Lawrence and Anies Sts.....	107	80	187	152	119	271	97	70	167	90	63	153	96	0	35	30	25	5	1	63	184	23	90
	Church St.....	Church St., near George.....	46	37	83	112	102	214	46	40	86	42	34	76	97	0	29	18	44	2	2	34	133	45	88
	Totals for Primaries.....		320	280	600	525	492	1017	308	268	576	279	236	515	310	0	117	101	124	14	3	216	626	172	89
	Edson (Gram.).....	Cor. South and Highland Sts.....	194	205	399	274	289	563	203	206	409	190	186	376	27	86	23	29	18	44	96	392	75	0	92
Edson Sch. Dist.	<i>Primaries.</i>																								
	Elliott St.....	Cor. Middlesex and Elliott Sts.....	95	85	180	165	151	316	100	87	187	91	79	170	86	0	38	28	42	3	2	53	233	28	91
	Howard St.....	Howard St., near Hale.....	81	56	137	133	118	251	77	58	135	68	50	118	81	0	21	27	27	3	2	27	174	48	81
	Charles St.....	Charles St., near Gorham.....	50	42	92	92	73	165	52	37	89	48	33	81	44	0	23	29	32	1	0	45	87	33	91
	Totals for Primaries.....		226	183	409	390	342	732	229	185	411	207	162	369	211	0	82	86	101	7	2	125	404	109	90
Green Sch. Dist.	Green (Gram.).....	Merrinack St., opposite Colburn.....	170	157	327	279	255	534	164	164	328	153	154	307	79	67	15	28	22	18	111	389	34	0	94
	<i>Primaries.</i>																								
	Mann	Cor. Broadway and Lewis Sts.....	110	69	179	152	126	278	102	65	167	97	60	157	101	0	23	37	25	5	5	59	124	90	94
	Kirk St.....	Cor. Kirk and Lee Sts.....	50	40	100	116	90	206	48	38	86	43	32	75	64	0	30	44	29	2	0	22	155	29	88
	Cabot St.....	Cor. Cabot and Ford Sts.....	102	52	154	174	132	306	86	53	139	77	45	122	161	0	17	25	26	2	0	60	150	87	88
Green Sch. Dist.	Cheever St..	Cor. Cheever and Tucker Sts.....	18	19	37	43	47	90	17	16	33	14	13	27	89	0	1	0	5	0	0	6	55	29	82
	Totals for Primaries.....		280	180	460	485	395	880	253	172	425	231	150	381	418	0	71	106	105	9	5	147	493	145	88
	Highland (Gram.)..	West Pine St.....	238	211	449	295	340	635	220	248	468	207	225	432	37	94	32	38	25	10	154	425	56	0	92
	<i>Primaries.</i>																								
	Franklin.....	Cor. Middlesex and Branch Sts.....	85	89	174	149	161	310	83	70	153	74	61	125	107	0	44	27	37	0	2	69	214	25	88
Highland Sch. District.	Plain St.....	Cor. Plain and Powell Sts.....	42	42	84	75	58	133	45	34	79	39	32	71	40	0	25	15	17	0	0	8	104	21	90
	Dover St.....	Dover St., near Grove.....	54	61	115	73	98	171	50	60	110	46	55	101	36	0	18	19	8	0	1	13	137	20	92
	Powell St.....	Powell St., near Liberty	42	31	73	66	66	132	45	41	86	42	36	78	20	0	15	26	17	0	0	33	80	19	91
	Mid'dx Village...	Middlesex Village, near No. 954 Middlesex St..	14	18	32	24	32	56	12	19	31	11	16	27	20	0	1	7	8	0	0	6	40	10	87
	Totals for Primaries.....		237	241	478	387	415	802	255	224	459	212	200	412	223	0	103	94	87	0	3	129	575	95	92

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS — (CONTINUED).

SCHOOLS.		LOCATION.																					
No. pupils belonging Dec. 19, 1886.	Whole No. of pupils on time-book since Jan. 4, 1886.		Average No. of pupils belonging to the schools.		Average daily attendance.		No. entered, not rec'd from any other public school.	Received from other public schools of lower grade.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling, for mills.	Number over fourteen years of age.	Between ten and fourteen years of age.	Between six and ten years of age.	Under six years of age.	Per cent. of attendance.						
	Males.	Females.	Total.	Males.	Females.	Total.												Males.	Females.	Total.			
Moody (Gram.)....	109	115	224	167	180	347	119	110	229	111	99	210	43	48	9	17	21	68	210	69	0	92	
Primaries.																							
Pond St.....	44	35	79	79	88	167	49	50	99	45	44	89	40	0	15	20	10	1	20	111	35	90	
High St.....	36	43	79	72	75	147	40	39	79	36	35	71	38	0	25	26	13	0	20	109	18	90	
Fayette St.....	15	13	28	44	35	79	21	13	34	19	11	30	60	0	13	4	10	1	8	58	12	88	
Totals for Primaries.....	95	91	186	195	198	393	110	102	212	100	90	190	138	0	53	50	33	2	48	278	65	89	
Pawt'ket (Gram.)..	58	45	103	80	68	148	54	47	101	49	42	91	14	14	12	11	10	4	35	97	16	0	90
Primaries.																							
Mammoth Road..	44	48	92	73	69	142	44	48	92	37	41	78	44	0	18	38	8	1	0	14	108	20	85
Varnum Avenue.	3	6	9	9	11	20	4	7	11	4	6	10	2	0	4	0	10	0	2	5	11	2	91
Totals for Primaries.....	47	54	101	82	80	162	48	55	103	41	47	88	46	0	22	38	18	1	2	19	119	22	88
Varnum (Gram.)...	206	228	434	296	295	591	189	193	382	174	176	350	57	79	41	16	22	55	94	423	74	0	92
Primaries.																							
West Sixth St....	94	66	160	185	155	340	106	85	191	97	73	170	97	0	42	35	76	8	1	70	255	14	89
Tenth St.....	101	83	184	158	140	298	98	83	181	88	71	159	90	0	33	31	33	0	1	40	222	35	88
River St.....	54	41	95	109	85	194	54	40	94	47	36	83	44	0	27	21	14	9	1	38	143	12	88
Fourth St.....	25	18	43	34	21	55	27	18	45	25	17	42	7	0	48	0	6	0	0	7	42	6	93
Totals for Primaries.....	274	208	482	486	401	887	285	226	511	257	197	454	238	0	150	87	130	17	3	155	602	62	90
High School.....	172	186	358	264	264	528	174	179	353	165	173	338	10	149	0	0	0	0	512	16	0	0	96
Grammar Schools.....	1486	1439	2925	2132	2128	4260	1443	1434	2877	1345	1297	2642	389	548	188	188	179	258	813	2985	452	0	92
Primary Schools.....	1997	1609	3606	3485	3152	6637	2031	1686	3717	1833	1496	3329	2260	0	1048	775	831	70	28	1116	4455	966	90
Totals.....	3655	3294	6949	5881	5544	11425	3648	3299	6947	3343	2966	6309	2659	697	1236	963	1010	328	1353	4117	4907	966	91
Summary.																							

SCHOOL COMMITTEE FOR 1887.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1887.

JAMES C. ABBOTT, Mayor.
 GEORGE W. BATCHELDER, Vice Chairman.
 GEORGE F. LAWTON, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

JAMES C. ABBOTT, Mayor	}	<i>Ex-Officiis.</i>
JAMES H. CARMICHAEL, Pres't Common Council,		
Ward 1—LAWRENCE CUMMINGS	Term Expires	1887
STEPHEN J. JOHNSON	" "	1888
" 2—GEORGE E. STANLEY	" "	1887
GUSTAVUS A. GERRY	" "	1888
" 3—JOHN J. CLUIN	" "	1887
DANIEL J. DONAHUE	" "	1888
" 4—GEORGE W. BICKNELL	" "	1887
RANSOM A. GREENE	" "	1888
" 5—GEORGE W. BATCHELDER	" "	1887
ANDREW G. SWAPP	" "	1888
" 6—CHARLES H. CONANT	" "	1887
TERRENCE F. MOLLOY	" "	1888

STANDING COMMITTEES.

ON ACCOUNTS—The Mayor, Messrs. Carmichael, Batchelder, Johnson, Conant.

ON SCHOOL-HOUSES AND HYGIENE—Messrs. Batchelder, Greene, Conant, Stanley, Gerry.

ON TEACHERS—Messrs. Johnson, Donahue, Conant, Batchelder, Bicknell.

ON REPORTS AND PRINTING—Messrs. Donahue, Swapp, Bicknell, Cummings, Molloy.

ON BOOKS AND SUPPLIES—Messrs. Cluin, Greene, Donahue, Cummings, Swapp, Johnson.

ON SALARIES—The Mayor, Messrs. Gerry, Bicknell, Stanley, Molloy.

ON PENMANSHIP AND DRAWING—Messrs. Greene, Swapp, Batchelder, Cluin, Stanley.

ON MUSIC—Messrs. Molloy, Donahue, Johnson, Conant, Gerry.

ON EVENING SCHOOLS—Messrs. Cummings, Greene, Cluin, Swapp, Molloy.

ON RULES AND REGULATIONS—Messrs. Gerry, Molloy, Bicknell, Conant, Cummings.

ON MILITARY INSTRUCTION—Messrs. Bicknell, Cluin, Stanley, Batchelder, Molloy.

ON REFORM SCHOOL—The Mayor, Messrs. Carmichael, Johnson.

ON HIGH SCHOOL—The Mayor, Messrs. Carmichael, Johnson, Gerry, Cluin, Donahue, Greene, Swapp.

ON PRIVATE SCHOOLS—The Mayor, Messrs. Stanley, Cluin, Gerry, Johnson.

ASSIGNMENT OF SCHOOLS.

THE MAYOR—High and Reform Schools.

PRES'T COMMON COUNCIL—High, Reform.

MR. JOHNSON—High, Reform, Mann, Kirk Street, Central Street, Chapel Street, Cottage Street.

MR. CUMMINGS—Green, Cabot Street, Rock Street, Cheever Street, Elliot Street.

MR. GERRY—High, Varnum.

MR. STANLEY—West Sixth Street, Tenth Street, Morrill, River Street.

MR. CLUIN—High, Butler, Agawam Street, Carter Street.

MR. DONAHUE—High, Colburn, London Street.

MR. GREENE—High, Edson, Dover Street, Plain Street.

MR. BICKNELL—Highland, Franklin, Powell Street.

MR. SWAPP—High, Bartlett, School Street.

MR. BATCHELDER—Pawtucket, Mammoth, Varnum Avenue, Middlesex Village, Howard Street and annex on Grand Street.

MR. CONANT—Moody, High Street, Ames Street, Charles Street.

MR. MOLLOY—Church Street, Lyon Street, Pond Street.

GEORGE F. LAWTON, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS—One hour after the forenoon session of the schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

JOHN A. SMITH, Supervisor of Evening Schools.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BERMINGHAM. JOHN F. WILLIAMS.

Office in City Government Building.

AUDITOR'S
FIFTY-FIRST ANNUAL REPORT
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF LOWELL, MASS.

TOGETHER WITH THE TREASURER'S ACCOUNT AND THE
ACCOUNT OF THE COMMISSIONERS OF SINKING
FUNDS, FOR THE FINANCIAL YEAR
ENDING DEC. 31, 1886.



LOWELL, MASS.:
DAILY NEWS PRESS, 76 MERRIMACK AND 51 MIDDLE STREETS.
1887.

CITY OF LOWELL.

IN COMMON COUNCIL, Jan. 20, 1887.

Read and sent to the Board of Aldermen.

WILLIAM J. COUGHLIN,
Clerk.

IN BOARD OF ALDERMEN, Feb. 8, 1887.

Received and read.

DAVID W. O'BRIEN,
City Clerk.

AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES,

FOR THE YEAR ENDING DEC. 31, 1886.

AUDITOR'S REPORT.

CITY OF LOWELL,
AUDITOR'S OFFICE, Jan. 19, 1887.

TO THE CITY COUNCIL:

Gentlemen,—In conformity with the requirements of the Ordinances of the City, I have the honor to present the Fifty-first Annual Report of the Receipts and Expenditures of the City of Lowell for the financial year ending Dec. 31, 1886, exhibiting the same as classified in the several Department Accounts, with a schedule of the Real and Personal Property belonging to the City, and a statement of the City Debt and Debts due to the City.

RECEIPTS.

The whole amount of money received
into the Treasury from all sources,
from Jan. 1 to Dec. 31, 1886, was

\$1,687,275 87

Of this amount there was received on
account of:

Taxes of 1884.....	\$ 6,435 87
Taxes of 1885.....	51,806 00
Taxes of 1886.....	807,707 52

Amount carried forward..... \$865,949 39

<i>Amount brought forward</i>	\$865 949 39
Schools.....	721 11
School-houses.....	538 88
Roads and Bridges.....	18,181 57
Reserved Fund.....	68,092 81
Paupers.....	8,848 27
Police.....	11,744 42
Fire Department.....	4,938 59
Sewers and Drains.....	5,858 39
Intercepting Sewer.....	967 39
Commons.....	540 67
Printing and Advertising.....	13 75
Lighting.....	32 50
Public Buildings.....	3,641 73
City Hall Building Lot.....	1,968 00
City Library.....	2,630 31
Health.....	4,659 00
Water Works.....	169,998 05
State Aid.....	10,031 25
Aid for Indigent Soldiers and Sailors.	4,299 50
Interest.....	6,536 46
City Debt.....	44,509 39
National Bank Tax.....	4,199 11
Abatement of Taxes.....	90 48
Temporary Loans.....	402,000 00
Fund for Ordinary City Debt.....	46,284 85
	<hr/>
	<u>\$1,687,275 87</u>

EXPENDITURES.

The amount expended and ordered to
be paid from the Treasury, from
Jan. 1 to Dec. 31, 1886 was

\$1,686,356 34

The expenditures are charged to the
following Appropriations or Ac-
counts :

Schools.....	\$168,888 18
School-houses.....	42,824 87
Roads and Bridges.....	112,752 80
Reserved Fund.....	51,911 90
Paupers.....	68,659 50
Police.....	68,624 20
	<hr/>
<i>Amount carried forward</i>	\$513,661 45

AUDITOR'S REPORT.

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<i>Amount brought forward</i>	\$513,661 45
Fire Department.....	64,712 98
Sewers and Drains.....	49,601 40
Intercepting Sewer.....	1,273 75
Commons.....	8,777 44
Printing and Advertising.....	2,760 63
Lighting.....	44,315 32
Public Buildings.....	10,625 18
City Hall Building Lot.....	625 38
City Library.....	15,290 38
Health.....	18,350 70
Water Works.....	169,105 22
Taylor Street.....	1,937 84
Water for Hydrants, Troughs and Fountains.....	15,675 00
Salaries.....	18,166 67
State Aid.....	10,119 75
Aid for Indigent Soldiers and Sailors,	8,155 00
Interest.....	64,248 52
City Debt.....	102,850 00
National Bank Tax.....	15,821 74
State Tax.....	42,855 00
County Tax.....	25,766 01
Abatement of Taxes.....	96 21
Temporary Loans.....	402,000 00
Water Loan Sinking Fund.....	25,000 00
Sinking Fund for Loan of 1880.....	4,000 00
Sinking Fund for Loan of 1882.....	2,500 00
City Hall Building Lot Sinking Fund.	7,000 00
Aiken Street Sinking Fund.....	16,000 00
Sinking Fund for High Service Water Supply.....	1,800 00
Sinking Fund for New Building at City Farm.....	5,000 00
Central Bridge Sinking Fund.....	9,600 00
Intercepting Sewer Fund.....	5,000 00
Fund for Ordinary City Debt.....	3,664 77

\$1,686,356 34

The whole amount of receipts during
the year 1886, was..... \$1,687,275 87

The whole amount of expenditures dur-
ing the year 1886, was..... 1,686,356 34

Excess of receipts over expenditures..

\$919 53

The balance in the Treasury Jan. 1, 1886, was	\$ 19,503 11	
The amount received into the Treasury during the year 1886, was	1,687,275 87	
Making a total of	\$1,706,778 98	
The amount paid from the Treasury during the year 1886, was	1,686,356 34	
The balance in the Treasury, Dec. 31, 1886, was		<u>\$20,422 64</u>

CITY DEBT.

The amount of the City Debt, Jan. 1, 1886, was		\$3,268,250 00
There have been paid on account of the City Debt during the year 1886, notes and bonds, as follows :		
To Lowell Institution for Savings, an instalment on a note dated Jan. 15, 1885, which matured Jan. 15, 1886.	\$3,000 00	
To Perkins, Dupee & Co., bonds which matured May 1, 1886	7,500 00	
To Commonwealth of Massachusetts, a note dated June 15, 1876, which matured June 15, 1886	50,000 00	
To Perkins, Dupee & Co., bonds which matured June 20, 1886	10,000 00	
To Commissioners of Sinking Funds, an instalment on a note dated July 1, 1884, which matured July 1, 1886	1,650 00	
To Commissioners of Sinking Funds, an instalment on a note dated July 24, 1885, which matured July 24, 1886	3,500 00	
To Commissioners of Sinking Funds, an instalment on a note dated Aug. 4, 1884, which matured Aug. 4, 1886	7,500 00	
To Commissioners of Sinking Funds, an instalment on a note dated Sept. 19, 1885, which matured Sept. 19, 1886	2,000 00	
<i>Amounts carried forward</i>	<u>\$85,150 00</u>	<u>\$3,268,250 00</u>

<i>Amounts brought forward</i>	\$85,150 00	\$3,268,250 00
To Commissioners of Sinking Funds, an instalment on a note dated Sept. 19, 1885, which matured Sept. 19, 1886.....	1,500 00	
To Commissioners of Sinking Funds, an instalment on a note dated Dec. 3, 1885, which matured Dec. 3, 1886	3,000 00	
To Lowell Institution for Savings, an instalment on a note dated Dec. 15, 1883, which matured Dec. 15, 1886.....	8,500 00	
To Lowell Institution for Savings, an instalment on a note dated Dec. 15, 1883, which matured Dec. 15, 1886.....	7,700 00	
	<hr/>	105,850 00
Total amount of City Debt, Jan. 1, 1887.....		<hr/> \$3,162,400 00 <hr/>
Decrease in the City Debt during the year 1886 was.....		<hr/> \$105,850 00 <hr/>
The amount of the City Debt on ac- count of Water Works, Jan. 1, 1886, was.....		\$1,890,000 00
There has been paid on account of the same during the year 1886.....	\$53,000 00	
The amount of the Sinking Funds for the reduction of the same, Jan. 1, 1887, was.....	517,994 42	
	<hr/>	570,994 42
Net Debt of the City on account of Water Works, Jan. 1, 1887.....		<hr/> \$1,319,005 58 <hr/>
The amount of the Ordinary City Debt, Jan. 1, 1886, was.....		\$1,378,250 00
There has been paid on account of the same during the year 1886.....	\$52,850 00	
The amount of the Sinking Funds for the reduction of the same, Jan. 1, 1887, was.....	369,274 57	
	<hr/>	422,124 57
Net Ordinary City Debt, Jan. 1, 1887.		<hr/> \$956,125 43 <hr/>

Total Net Debt of the City, Jan. 1, 1886.....	\$2,451,723 70
Total Net Debt of the City, Jan. 1, 1887.....	2,275,131 01
	<hr/>
Decrease in the Net Debt of the City during the year 1886.....	\$176,592 69
	<hr/> <hr/>

Respectfully Submitted,

DAVID CHASE,

Auditor of Accounts.

APPROPRIATIONS AND EXPENDITURES.

THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE BY THE CITY COUNCIL DURING THE YEAR—THE AMOUNT OF THE UNEXPENDED BALANCE OF 1885—THE TRANSFERS FROM ONE APPROPRIATION TO ANOTHER—THE AMOUNT RECEIVED INTO THE TREASURY FROM ALL SOURCES—THE EXPENDITURES IN DETAIL UNDER EACH APPROPRIATION, AND THE UNDRAWN BALANCES, DEC. 31, 1886—ALSO THE AMOUNT OF THE CITY DEBT—DEBTS DUE THE CITY—SCHEDULES OF REAL AND PERSONAL PROPERTY, ETC.

SCHOOLS.

Appropriated and assessed in 1886.....	\$160,000 00	
	\$160,000 00	

RECEIPTS.

Received into the Treasury on account
of SCHOOLS:

From Appropriation for Roads and Bridges, for coal.....	\$ 30 11	
Appropriation for Paupers, for books, supplies and coal.....	362 16	
Appropriation for Police, for coal,	45 52	
Appropriation for Health, for coal.....	15 63	
Reserved Fund, for coal and mat.	25 04	
William H. Bermingham, for sale of paper, slates and books...	7 65	

The following persons for TUITION:

Mary A. Baker.....	60 00	
Fred Bassett.....	20 00	
Wallace P. Butterfield.....	60 00	
Charles W. Clark.....	20 00	
Josephine W. Fels.....	20 00	
Frank P. Gulliland.....	20 00	
John Hanlan.....	3 00	
—— Morgan.....	6 00	
Charles M. Torsey.....	20 00	
Arthur Welch.....	6 00	

721 11

TRANSFERS.

From Appropriation for Roads and Bridges.....	\$3,000 00	
<i>Amounts carried forward</i>	\$3,000 00	\$160,721 11

<i>Amounts brought forward</i>	\$3,000 00	\$160,721 11
Received into the Treasury on account of SCHOOLS: — Transfers		
From Appropriation from Fire Department.....	3,000 00	
Appropriation for Public Buildings.....	2,167 07	
	<hr/>	8,167 07
		<hr/>
		\$168,888 18
		<hr/>

EXPENDITURES.

Paid SUPERINTENDENT OF PUBLIC SCHOOLS:

To George H. Conley, salary.....	\$ 650 00	
George F. Lawton, salary.....	1,950 00	
	<hr/>	\$2,600 00

Paid for INSTRUCTION:

HIGH SCHOOL.

To Frank F. Coburn, Principal.....	\$1,680 00	
Frank B. Sherburne.....	1,800 00	
Cyrus W. Irish.....	1,050 00	
Alvin A. Hanscom, Military Instructor.....	325 00	
Mary A. Webster.....	800 00	
Marietta Melvin.....	280 00	
Elizabeth McDaniels.....	700 00	
Harriet C. Hovey.....	700 00	
Charlotte E. Draper.....	700 00	
Alice J. Chase.....	700 00	
M. Jennie Keese.....	388 50	
Susie L. D. Watson.....	620 00	
Mary E. Stevens.....	620 00	
Adelaide Baker.....	620 00	
Jennie L. Allen.....	620 00	
	<hr/>	11,603 50

BARTLETT SCHOOL.

To Samuel Bement, Principal.....	\$1,740 00	
Marianne B. Kent.....	563 12	
Abbie E. French.....	600 00	
Belle F. Batchelder.....	600 00	
	<hr/>	
<i>Amounts carried forward</i>	\$3,503 12	\$14,203 50

Amounts brought forward..... \$3,503 12 \$14,203 50

Paid for INSTRUCTION:

To Belle A. Prescott.....	600 00	
M. Ida Howe.....	600 00	
Frances M. Talbot.....	600 00	
Lola Cheney.....	308 75	
Amy L. Tucke.....	600 00	
Hattie F. Keyes.....	28 13	
Lizzie A. Hart.....	118 76	
	<hr/>	6,358 76

BUTLER SCHOOL.

To Cornelius F. Callahan, Principal....	\$1,740 00	
Frances M. Webster.....	600 00	
Laura F. Howe.....	600 00	
Nellie Keefe.....	600 00	
Nellie F. Murphy.....	600 00	
Carrie A. Miles.....	600 00	
Katie E. Kelley.....	600 00	
Delia T. Brady.....	600 00	
Mary L. McSorley.....	600 00	
	<hr/>	6,540 00

COLBURN SCHOOL.

To George W. Howe, Principal... ..	\$1,740 00	
Elizabeth W. Frost.....	600 00	
Sarah J. Crosby.....	600 00	
Susan M. Andrews.....	600 00	
Mary A. Hammill.....	599 37	
Elizabeth A. Balch.....	425 00	
Kate G. McLaughlin.....	531 75	
Arvilla L. Reader.....	600 00	
Mary Fay.....	25 00	
Margie Marren.....	290 00	
Albertie E. Lane.....	113 14	
	<hr/>	6,124 26

EDSON SCHOOL.

To Calvin W. Burbank, Principal.....	\$1,721 25	
Mary E. Stone.....	600 00	
Maria C. R. Swan.....	560 63	
Nettie E. Carleton.....	600 00	
Anna A. Sargent.....	593 13	
Mary F. Carleton.....	598 75	
Fannie A. Scripture.....	599 38	
Rosalie T. Burns.....	600 00	
	<hr/>	
<i>Amounts carried forward</i>	\$5,873 14	\$33,226 52

Amounts brought forward..... \$5,873 14 \$33,226 52

Paid for INSTRUCTION :

To	Carrie Stone.....	470 00	
	Mary A. Balch.....	600 00	
	Kate F. Hayes.....	586 25	
	Ellen M. Parsons.....	69 36	
	Minnie Owens.....	6 87	
		<hr/>	7,605 62

GREEN SCHOOL.

To	Albert L. Bacheller, Principal.	\$1,740 00	
	Ruth B. Bailey.....	600 00	
	Annie E. Richardson.....	599 37	
	Lizzie A. Nolan.....	600 00	
	Clara A. Hanaford.....	600 00	
	Kate F. Cassidy.....	600 00	
	Ella J. Carleton	600 00	
	Lulie A. Huntoon.....	540 12	
	Lena A. Gookin.....	593 75	
	Kate F. McCarthy.....	6 25	
	Mary J. Murphy.....	48 38	
	Annie M. Courtney.....	63	
		<hr/>	6,528 50

HIGHLAND SCHOOL.

To	Charles W. Morey, Principal.	\$1,740 00	
	Alice M. Clark.....	600 00	
	Abbie F. Woodward.....	600 00	
	Adelaide F. Bennett.....	600 00	
	Luella A. Wardwell.....	600 00	
	Fannie M. Clark.....	600 00	
	Estelle L. Whitney.....	470 00	
	Edith L. Monroe.....	461 25	
	Hattie B. Frye.....	586 88	
	Mary S. Gerry.....	540 00	
	Fannie B. Edwards.....	322 51	
	Nellie A. Coburn.....	132 42	
	Ellen L. Floyd.....	10 00	
		<hr/>	7,263 06

MOODY SCHOOL.

To	William S. Greene, Principal.....	\$1,740 00	
	Alice M. Sanborn.....	600 00	
	Mary E. Way.....	595 00	
	Carrie F. Smith.....	600 00	
	Clara A. Eaton.....	240 00	
		<hr/>	
	<i>Amounts carried forward</i>	\$3,775 00	\$54,623 70

AUDITOR'S REPORT.

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Amounts brought forward \$3,775 00 \$54,623 70

Paid for INSTRUCTION:

MOODY SCHOOL.

To Laura J. Pindar.....	600 00	
Frances E. Hardman.....	380 50	
Frances E. Garity.....	600 00	
Hattie S. Simpson.....	228 75	
Hattie A. Palmer.....	6 25	
Mary E. Smith.....	1 25	
Bertha M. Rowlandson.....	180 00	
Ada E. Hoole.....	5 00	
	<hr/>	5,776 75

PAWTUCKET SCHOOL.

To Cyrus W. Irish, Principal.....	\$300 00	
Nellie McDonald, Principal.....	900 00	
Celesta P. Chase.....	600 00	
Julia M. Healey.....	600 00	
	<hr/>	2,400 00

VARNUM SCHOOL.

To Arthur K. Whitcomb, Principal....	\$1,740 00	
Georgiana F. Vinton.....	576 87	
Harriet Bradley.....	600 00	
Minnie F. Wing.....	600 00	
Sarah A. Bradley.....	600 00	
Alice R. Keese.....	600 00	
Maria W. Roberts....	600 00	
Ada Martin.....	475 13	
Rosa A. Dowd.....	540 00	
Lizzie A. Hart.....	203 13	
Julia Williams.....	197 99	
Eugenia Coburn.....	6 25	
	<hr/>	6,739 37

TEACHER OF PENMANSHIP.

To Thomas M. Graves.....	\$1,100 00	
	<hr/>	1,100 00

TEACHER OF DRAWING.

To Henry T. Bailey.....	\$1,100 00	
	<hr/>	1,100 00

TEACHER OF VOCAL MUSIC.

To Walter N. Owen.....	\$400 00	
	<hr/>	400 00

<i>Amount carried forward</i>		<hr/> \$72,139.82
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Amount brought forward..... \$72,139 82

Paid for INSTRUCTION:

PRIMARY SCHOOLS.

AGAWAM STREET.

To Mary McLoughlin.....	\$600 00	
Annie M. Lee.....	470 00	
Bridget T. Maguire.....	600 00	
	<hr/>	1,670 00

AMES STREET.

To Amanda M. Hadley.....	\$600 00	
Katie F. Murphy.....	470 00	
Mary E. Drew.....	537 49	
Lizzie M. Hadley.....	600 00	
M. Antoinette Farnham... ..	78 12	
Jennie B. Holt.....	41 88	
	<hr/>	2,327 49

CABOT STREET.

To Lottie M. Fernald.....	\$600 00	
Mary A. Beard.....	600 00	
Martha A. Neal.....	600 00	
Nellie T. Gilday.....	362 50	
	<hr/>	2,162 50

CARTER STREET.

To Belle T. Vinal.....	\$600 00	
Georgia A. Harnden.....	470 00	
Cornelia M. Davis.....	600 00	
	<hr/>	1,670 00

CENTRAL STREET.

To Eliza Cowley.....	\$600 00	
Charlotte McDaniels.....	600 00	
Kate F. Lawlor.....	470 00	
Blanche E. Fay.....	470 00	
	<hr/>	2,140 00

CENTRAL STREET ANNEX.

To Katie E. McOwen.....	\$600 00	
Hattie A. Knowles.....	596 87	
Lizzie F. Carleton.....	600 00	
Maggie A. Harrihan.....	600 00	
Katie F. McCarthy.....	3 13	
	<hr/>	2,400 00

Amount carried forward..... \$84,509 81

SCHOOLS.

19

Amount brought forward..... \$84,509 81

Paid for INSTRUCTION:

CHARLES STREET.

To	Alice T. Owens.....	\$598 75	
	Abby L. Sargent.....	600 00	
	Bertha Rowlandson.....	1 25	
	Ada E. Hoole.....	40 00	
		<hr/>	1,240 00

CHEEVER STREET.

To	Mary J. Meade.....	\$600 00	
		<hr/>	600 00

CHURCH STREET.

To	Mary J. Alger.....	\$600 00	
	Abbie V. Wheeler.....	600 00	
		<hr/>	1,200 00

DOVER STREET.

To	Clara B. Horne.....	\$600 00	
	Clementine H. Bowers....	600 00	
	Bertha Gardner.....	361 26	
		<hr/>	1,561 26

ELLIOTT STREET.

To	Ellen A. Stillings....	\$600 00	
	Marietta McEvoy.....	600 00	
	Nellie T. O'Grady.....	600 00	
	Winifred Haggerty.....	540 00	
		<hr/>	2,340 00

FAYETTE STREET.

To	Nellie Kohawn.....	\$600 00	
		<hr/>	600 00

FRANKLIN SCHOOL.

To	Sarah J. Fiske.....	\$600 00	
	Lizzie S. Lowe.....	339 00	
	Marion J. Stevenson.....	600 00	
	Katie G. Jones....	600 00	
	Nellie A. Coburn.....	159 38	
		<hr/>	2,298 38

FOURTH STREET.

To	Helen J. Gookin.....	\$68 75	
		<hr/>	68 75

Amount carried forward..... \$94,418 20

Amount brought forward \$94,418 20

Paid for INSTRUCTION:

HIGH STREET.

To	Lucretia A. Day.....	\$574 99	
	Clara A. Emerson.....	600 00	
	Mary E. Smith.....	20 00	
	Hattie A. Palmer.....	12 50	
		<hr/>	1,207 49

HOWARD STREET.

To	Ellen A. Bridge.....	\$600 00	
	Marion E. Greene.....	540 00	
		<hr/>	1,140 00

HOWARD STREET ANNEX.

To	Ida J. Flint.....	\$600 00	
	Jennie M. Bennett.....	470 00	
		<hr/>	1,070 00

KIRK STREET.

To	Mercena F. Whitehorn.....	\$600 00	
	Laura H. Palmer.....	600 00	
		<hr/>	1,200 00

LONDON STREET.

To	Lizzie R. Maguire.....	\$540 00	
	M. Anastasia Lynch.....	468 13	
	Minnie Owens.....	36 87	
	Mary B. McGovern.....	225 63	
	Agnes M. Foley.....	1 87	
		<hr/>	1,272 50

LYON STREET.

To	Katie F. Fay.....	\$600 00	
	Alice T. Lee.....	600 00	
	Mary J. McCarry.....	600 00	
	Nellie A. Hunt.....	538 75	
	Jennie Holt.....	1 25	
		<hr/>	2,340 00

MAMMOTH ROAD.

To	Ellen M. Holden.....	\$600 00	
	Rose J. Delaney.....	470 00	
		<hr/>	1,070 00

<i>Amount carried forward</i>		<hr/>	\$103,718 19
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SCHOOLS.

21

Amount brought forward \$103,718 19

Paid for INSTRUCTION:

MANN SCHOOL.

To Mary L. Hill.....	\$600 00	
Minnie C. Smith.....	593 75	
Ellen A. Corbett.....	600 00	
Marietta F. Crowley.....	600 00	
Ella E. Gardner.....	600 00	
Lilla J. Greenhalge.....	600 00	
Lizzie F. Brennar.....	6 25	
	<hr/>	3,600 00

MIDDLESEX VILLAGE.

To Elizabeth A. Cotting.....	\$600 00	
	<hr/>	600 00

MORRILL SCHOOL.

To Ellen F. Coughlin.....	\$600 00	
Nellie M. Brown.....	600 00	
Isabella V. McAnulty.....	600 00	
Charlotte E. Brown.....	600 00	
	<hr/>	2,400 00

PLAIN STREET.

To Laura E. Lee.....	\$600 00	
Flora H. Sprague.....	600 00	
	<hr/>	1,200 00

POND STREET.

To Aurelia L. Howe.....	\$551 00	
Marietta Hill.....	599 37	
Hattie A. Palmer.....	65 63	
	<hr/>	1,216 00

POWELL STREET.

To Viola A. Hamblett.....	\$600 00	
Carrie J. Bailey.....	536 88	
Nellie A. Coburn.....	3 12	
	<hr/>	1,140 00

RIVER STREET.

To Sara R. Swan.....	\$600 00	
Lizzie C. Kennedy.....	540 00	
	<hr/>	1,140 00

Amount carried forward \$115,014 19

Amount brought forward \$115,014 19

Paid for INSTRUCTION:

ROCK STREET.

To Sarah E. Seales.....	\$600 00	
Ellen M. White.....	600 00	
	<hr/>	1,200 00

SCHOOL STREET.

To Annie S. Harlow.....	\$600 00	
M. Carrie Stiles.....	600 00	
Eugenia L. Hogan.....	68 13	
	<hr/>	1,268 13

TENTH STREET.

To Mary F. Beane.....	\$600 00	
Martha A. Franklin.....	366 87	
Katherine T. Lennon.....	465 62	
Ella A. Bailey.....	599 38	
Hattie A. Palmer.....	4 38	
Bertha M. Rowlandson.....	135 01	
Lizzie Lamere.....	62	
	<hr/>	2,171 88

VARNUM AVENUE.

To Laura J. Gould.....	\$240 00	
Ida J. Clark.....	210 62	
	<hr/>	450 62

WEST SIXTH STREET.

To Stella J. Allen.....	\$600 00	
Ella E. Bradley.....	600 00	
Eliza A. Davis.....	600 00	
Addie L. Richardson.....	540 00	
Helen J. Gookin.....	28 76	
Lizzie F. Lamere.....	13 75	
	<hr/>	2,382 51

WEED STREET.

To Mary B. McGovern.....	\$90 00	
Agnes M. Foley.....	18 75	
	<hr/>	108 75

Paid for services for TRUANT OFFICERS:

To William H. Bermingham.....	\$800 00	
	<hr/>	
<i>Amounts carried forward</i>	\$800 00	\$122,596 08

Amounts brought forward..... \$800 00 \$122,596 08

Paid for services of TRUANT OFFICERS:

To Bickford Lang.....	775 00	
John F. Williams.....	775 00	
	<hr/>	2,350 00

Paid for BOOKS:

To D. Appleton & Co.....	\$ 19 20	
Boston School Supply Co.....	1,084 32	
Clark & Maynard.....	96 67	
Cowperthwait & Co.....	144 05	
Ginn & Co.....	214 59	
Martin Garrison & Co.....	6 50	
Harrison Hume.....	256 02	
D. C. Heath & Co.....	14 00	
Houghton, Mifflin & Co.....	36 00	
Lee & Shepard.....	45 66	
Henry C. Nash.....	6 00	
Thompson, Brown & Co.....	376 26	
Van Antwerp, Bragg & Co.....	10 08	
William Ware & Co.....	791 62	
	<hr/>	3,100 97

Paid for BLANK BOOKS, STATIONERY, PRINTING, ADVERTISING, ETC.:

To Bacheller, Dumas & Co., for blank books, paper, printing, binding, etc.....	\$665 76
James R. Bailey, for paper.....	12 07
H. C. Church & Son, for blank books, stationery, twine, ink, etc.....	160 54
Coughlin Elastic Blotter Co., for erasers and slate pencils.....	36 92
Coughlin & Co., for blank books, stationery, etc.....	22 02
Cyclostyle Co., for ink and paper...	3 36
George Frost & Co., for pencil-sharpener and gear.....	6 50
J. M. Fellows, for rubber stamp....	3 25
J. W. C. Gilman & Co., for drawing and writing books.....	545 38
Paul A. Garey & Co., for plaster, clay and labor.....	23 35

Amounts carried forward..... \$1,479 15 \$128,047 05

Amounts brought forward..... \$1,479 15 \$128,047 05

Paid for BLANK BOOKS, STATION-
ERY, PRINTING, ADVERTIS-
ING, ETC.:

To J. L. Hammett, for ink-well covers and ink.....	39 50	
George F. King & Merrill, for pen- holders and dusters.....	128 65	
Leach, Shewell & Sanborn, for blanks.....	2 10	
J. Merrill & Son, for blank books...	75	
George S. Perry, for paper, ink, slates, pencils, rubber, ther- mometers, mats, etc.....	954 92	
Prang Educational Co., for drawing books, models, squares, com- passes, etc.....	817 27	
F. R. Rix, for paper-roller, paper and ink.....	5 25	
M. T. Rogers & Co., for blanks.....	8 50	
James E. Rice, for models.....	15 00	
A. Whitney, for blank books, seals, etc.....	25 62	
Henry W. Worcester, for subscrip- tion to periodicals.....	9 00	
Bailey Bros., for printing.....	11 00	
Citizen Newspaper Co., for cards, printing and advertising.....	178 53	
Campbell & Hanscom, for printing and advertising... ..	52 42	
Daily News Co., for printing and advertising.....	6 66	
Evening Democrat, for advertising..	4 00	
Franklin Printing Co., for printing.	2 50	
Harrington Bros., for printing.....	31 75	
F. E. Johnson, for printing.....	38 50	
Lowell Weekly Sun, for advertising	6 75	
Oliver A. Libby, for printing.....	38 00	
Marden & Rowell, for printing and advertising.....	120 08	
Morning Mail Co., for printing and advertising.....	704 59	
Vox Populi Press, for printing, ad- vertising, binding, etc.....	148 45	
A. V. Partridge, for posting.....	8 00	
	<hr/>	4,836 94
<i>Amount carried forward</i>		<hr/> \$132,883 99

Amount brought forward \$132,883 99

Paid for FUEL :

To Appropriation for roads and bridges, for labor.....	\$965 32	
Appropriation for paupers, for wood	773 74	
William Kittredge, for wood and coal.....	30 36	
William E. Livingston, for coal....	7,985 16	
	<hr/>	9,754 58

Paid for SUNDRIES :

To Appropriation for school houses, for lumber, desks, tables, labor, etc.	\$303 02	
Appropriation for school houses, for one-half cost of bell on High- land school house.....	190 00	
Appropriation for roads and bridges, for labor.....	79 00	
Appropriation for public buildings, for labor and material.....	893 59	
Appropriation for water works, for pipe, fittings and labor.....	76 60	
Appropriation for water works, for water.....	1,597 05	
Lowell Gas Light Co., for gas.....	109 21	
Otis Allen & Son, for lumber.....	24	
A. L. Brooks & Co., for lumber.....	24 39	
Badger & Holmes, for moulding....	20	
A. P. Bateman, for lumber.....	3 60	
Burnham & Moran, for lumber.....	35 46	
D. H. Bemis & Co., for brackets....	2 04	
A. Bachelder & Co., for doors and ladder rounds.....	22 30	
G. W. Bagley, for doors, lumber and labor.....	17 31	
Amasa Pratt & Co., for lumber.....	45 48	
Charles E. Adams, for hardware....	1 50	
Bartlett & Dow, for hardware.....	14 77	
John C. Bennett, for hardware.....	3 07	
H. B. Shattuck, for hardware, ash cans, etc.....	79 34	
Frederick Taylor & Co., for hardware	112 46	
O. E. Averill, for blacksmithing....	3 00	
H. R. Barker, for pipe, fittings, re- flectors, labor, etc.....	280 06	
Browning, Ladd & Speirs, for pipe, fittings, solder, packing, cement and labor.....	62 31	

Amounts carried forward..... \$3,956 00 \$142,638 57

Amounts brought forward \$3,956 00 \$142,638 57

Paid for SUNDRIES:

To T. Costello & Co., for pipe, fittings, solder, cement, hods and labor..	141 90
Cole & Nichols, for grates.....	19 38
Cahill Bros., for poker.....	1 00
L. A. Derby & Co., for electric ap- paratus, bells, wire, buttons, lamp, labor, etc.....	277 70
Richard Dobbins, for castings and labor.....	10 45
T. R. Garity & Co., for pipe, fittings, valves and labor.....	632 02
John Gilchrist, for pipe, packing, solder and labor.....	41 23
M. J. Hennessey, for pipe, fittings and labor.....	12 22
Aaron C. Ladd, for pipe, burners, packing and labor.....	7 53
William McLarney & Co., for pipe, solder and labor.....	9 58
W. A. Mack & Co., for fire brick and mica....	5 00
S. G. Mack & Co., for grates, ink fillers, cups and labor.....	37 17
New York Calcium Light Co., for cylinder cocks.....	6 00
M. O'Flahavan & Co., for shovels, dust pans and cups.....	19 25
A. Parsons, for labor.....	85
Pevey Bros., for castings.....	2 22
Seannell & Wholey, for gaskets, el- bows, inspecting boilers, etc....	171 10
J. W. Stewart & Co., for labor.....	1 38
Union Iron Foundry Co., for castings	66 31
N. J. Wier & Co., for pipe, trap and strainers.....	3 01
H. H. Wilder & Co., for ash hods, pipe, plumbing, etc.....	995 30
Wallingford & Callaghan, for stove, castings, blacking, labor, etc....	92 10
C. Zimmer, for keys.....	1 75
Adams & Co., for carpet, lining, mir- ror, chairs and labor.....	128 24
Benner Bros., for chairs, seats, cushion and shades.....	119 71

Amounts carried forward \$6,758 40 \$142,638 57

Amounts brought forward..... \$6,758 40 \$142,638 57

Paid for SUNDRIES:

To Gookin Bros., for chairs, matting and brooms.....	45 25
J. F. Puffer & Son, for matting, tables, lamp, zinc and labor....	82 25
Shea & McOsker, for shades, fixtures and labor.....	96 18
Sherman and Manning, for chair and matting.....	27 14
A. G. Whitcomb, for seats, ink wells and covers.....	74 20
John Welch, for cabinet case, furniture and labor.....	210 40
Rose A. Jordan, for ribbon.....	10 04
F. & E. Bailey & Co., for chemicals.	51 37
A. and E. Burton & Co., for feather dusters and brushes.....	161 83
Carleton & Hovey, for tubing, brushes, comb, etc.....	17 72
C. B. Coburn & Co., for oil, shellac, ammonia, gold leaf, sponge, twine, brushes, mops, wicking, etc.....	240 89
C. G. Coburn, for lantern globe and tacks.....	25
H. F. Ebert, for enamel cloth.....	6 58
Fiske & Spalding, for shades and fixtures.....	7 26
French & Puffer, for brooms.....	2 00
Josiah Gates & Sons, for leather...	25
I. K. Goodale, for blacking.....	25
Jonathan Kendall & Co., for twine..	1 22
A. L. Kittredge, for shades and fixtures.....	84 90
Lowell Rubber Co., for tubing.....	6 24
Lyons & Burns, for soap.....	1 65
Murphy, Leavens & Co., for brushes	49 35
E. A. McQuade, for matches, soap, etc.....	5 90
Charles Nichols, Jr., & Co., for disinfectant holders.....	60
Nichols & Fletcher, for salt.....	15
W. H. Spalding & Co., for paper and glass.....	17 17
P. J. Smith, for cloth.....	1 60

Amounts carried forward..... \$7,961 04 \$142,638 57

Amounts brought forward..... \$7,961 04 \$142,638 57

Paid for SUNDRIES:

To Talbot Dyewood and Chemical Co., for chemicals.....	7 51
Russell S. Clifford, for repairing clocks.....	22 60
J. J. Cluin, for medals, clocks and repairing clocks.....	59 00
Charles T. Haskell, for repairing clocks.....	3 00
Alvin Lawrence, for clocks and re- pairing clocks.....	41 25
Durant & Rogers, for labor.....	6 00
Thomas Hall, for spectroscope, rub- ber, etc.....	93 77
C. H. Kimball, for belts.....	13 00
Owen Bros., for drum cord.....	4 45
O. A. Richardson, for military equip- ments and repairing rifles.....	158 00
William Read & Sons, for rifles....	655 00
Western Union Telegraph Co., for telegram.....	25
Owen's Orchestra, for services.....	70 50
Lowell Cornet Band, for services...	42 00
Harry B. Day, for music, arranging music and musical instruction..	118 00
Town of Chelmsford, for tuition of Rosa Duioren, Beatrice Lefevre, Joseph Kittredge and George Little.....	22 75
Town of Dracut, for tuition of Ar- thur and George De Rycke.....	8 00
Merrill & Cutler, for professional services.....	10 75
Auguste Guillet, for services as in- terpreter for census taker.....	5 00
John J. Donahue, for taking and re- cording census of school chil- dren.....	161 10
Matthew H. Gilroy, for taking and recording census of school chil- dren.....	221 30
Henry Kileski, for taking and re- cording census of school chil- dren.....	185 35
T. M. Graves, for engrossing resolu- tions and diplomas, etc.....	50 00

Amounts carried forward..... \$9,919 62 \$142,638 57

Amounts brought forward..... \$9,919 62 \$142,638 57

Paid for SUNDRIES:

To Ellen D. Carney, for services at exhibition of drawings.....	7 17
Mary E. Cushing, for services at exhibition of drawings, etc.....	32 96
Willard M. Foster, for services at exhibition of drawings.....	7 00
Fred W. Farnham, for services at exhibition of drawings.....	7 00
George W. Poore, for services at evening school exhibition.....	4 75
William H. Bermingham, for cash paid for travelling expenses, postage, etc.....	32 30
George H. Conley, for cash paid for travelling expenses, postage, etc.	12 30
J. J. Cluin, for cash paid for expenses of committee.....	7 65
Alvin A. Hanscom, for cash paid for expressing.....	1 90
George F. Lawton, for cash paid for stamps.....	2 00
Walter H. Leighton, for cash paid for expenses of committee.....	8 00
John F. Williams, for cash paid for keys, stamps, express and labor.	2 55
Highland M. E. Church, for rent of room.....	151 25
Proprietors of Locks and Canals on Merrimack River, for rent of land.....	1 00
Martha L. Smith, for rent of room..	36 00
L. E. Shepard, agent, for rent of room.....	20 00
Swedish Evangelical Mission Church, for rent of room.....	67 50
Irvin A. Foote, for tuning pianos...	40 00
Coburn & Crosby, for blackboard material and labor.....	38 10
D. M. Prescott, for mason work and material.....	80 00
T. E. Adams, for care of armory, etc.	10 00
John H. McNabb, for care of armory.....	29 50
William H. Greene, for distributing reports.....	45 00

Amounts carried forward..... \$10,563 55 \$142,638 57

Amounts brought forward \$10,563 55 \$142,638 57

Paid for SUNDRIES:

To George A. Philbrick, for ringing bell and labor.....	28 90	
B. A. Thissell, for ringing bell.....	30 00	
Ann Connors, for labor.....	20 25	
Mrs. J. Smith, for labor.....	4 25	
Patrick Donahue, for labor.....	1 00	
Lowell Carpet Beater and Cleanser Co., for labor.....	1 46	
Ellen McCarty, for labor.....	1 25	
John H. Quinn, for labor.....	5 00	
James Critchett, for cleaning vaults.....	6 00	
Fred A. Fox, for cleaning vaults....	62 83	
Charles F. Keyes, for carriage hire.....	13 00	
E. H. Morse, for carriage hire.....	26 00	
G. W. Norris, for carriage hire.....	5 50	
Bickford Lang, for use of team.....	100 00	
P. H. Brady, for teaming.....	2 25	
O. Bartlett, for teaming.....	3 00	
John H. Cook, for teaming.....	4 00	
W. T. Griffin, for teaming.....	2 25	
D. E. Griffin, for teaming.....	1 50	
Patrick Hunt, for teaming.....	75	
John Harrington, for teaming.....	5 00	
Timothy Kelley, for teaming.....	1 00	
F. S. Ladd, for teaming.....	50	
James Leach, for teaming.....	10 10	
D. W. Mosher, for teaming.....	1 00	
F. Meehan, for teaming.....	50	
J. D. Mason, for teaming.....	3 00	
Alphonso Merrill, for teaming.....	3 25	
Daniel McCarthy, for teaming.....	10 75	
McDonald & Mason, for teaming...	75	
John Ragan, for teaming.....	50	
William Roberts, for teaming.....	21 00	
G. E. Stanley, for teaming.....	1 21	
Samuel Tompkins, for teaming.....	1 25	
George Tompkins, for teaming.....	50	
James T. Trask, for teaming.....	3 86	
Lovejoy-Paul Express, for transportation.....	12 90	
Rand Express Co., for transportation.....	5 60	
U. S. and C. Express, for transportation.....	45 45	
	<hr/>	11,010 86
<i>Amount carried forward</i>		\$153,649 43

SCHOOLS.

31

Amount brought forward \$153,649 43

EVENING SCHOOLS.

Paid SUPERVISOR OF EVENING
SCHOOLS:

To	John A. Smith, salary.....	\$420 00	
		<hr/>	420 00

Paid for INSTRUCTION:

HIGH SCHOOL.

To	James D. Horne.....	\$376 00	
	Thomas M. Graves.....	146 00	
	George W. Poore.....	170 00	
	Fred N. Wier.....	124 00	
	Avila Bourbonniere.....	162 00	
	John B. Delaney.....	82 00	
	Fred Wood.....	80 00	
	Julian L. Whiteside.....	162 00	
	Frank F. Coburn.....	33 00	
	Cyrus W. Irish.....	132 00	
	John W. McEvoy.....	80 00	
	Joseph F. Mulcahey.....	80 00	
	William H. Bagley.....	72 00	
	Nellie T. Gilday.....	60 00	
	Katie F. Keyes.....	84 00	
		<hr/>	1,843 00

BARTLETT SCHOOL.

To	Joseph H. Guillet.....	\$154 00	
	Louie E. Brown.....	91 25	
	Nellie S. Miller.....	96 25	
	Agnes T. Donoghue.....	91 25	
	Sarah Labarge.....	41 25	
	D. Emilie Ross.....	91 25	
	Azilda Trinqu.....	41 25	
	Sarah Girard.....	41 25	
	Minnie A. Wilson.....	77 50	
	Rebecca Gill.....	50 00	
	Imogene B. Robey.....	36 25	
	Carrie Guion.....	50 00	
	Louise Prairee.....	15 00	
		<hr/>	876 50

BUTLER SCHOOL.

To	Michael J. Dowd.....	\$66 00	
	Mary A. Fay.....	96 25	
		<hr/>	
<i>Amounts carried forward</i>		\$162 25	\$156,788 93

Amounts brought forward..... \$162 25 \$156,788 93

Paid for INSTRUCTION:

BUTLER SCHOOL.

To	Anastasia Corbett.....	91 25	
	Minnie Owens.....	91 25	
	Mary B. McGovern.....	41 25	
	Albertie Lane.....	91 25	
	Bertha M. Rowlandson.....	41 25	
	Carl Blomgren.....	42 00	
	Victor Pihl.....	72 50	
	George P. Green.....	88 00	
	Annie E. Slavin.....	50 00	
	Agnes M. Foley.....	50 00	
	Sigrid Soderberg.....	10 00	
		<hr/>	831 00

COLBURN SCHOOL.

To	Stephen G. Bailey.....	\$38 00	
	Hattie A. Palmer.....	41 25	
	M. Elizabeth Ham.....	41 25	
	Ellen W. Parsons.....	41 25	
	Mabel Derby.....	104 00	
	John F. Curtis.....	80 00	
	Annie M. Lee.....	9 25	
	Bertha M. Rowlandson.....	55 00	
	Fannie E. Metcalf.....	50 00	
	Rose E. McVey.....	50 00	
	Sarah A. Byrne.....	48 75	
	Jennie B. Holt.....	48 75	
	Alice Masterson.....	1 25	
	Ada Hoole.....	1 25	
		<hr/>	610 00

FRANKLIN SCHOOL.

To	Helen J. Gookin.....	\$76 00	
	Lizzie F. Lamere.....	97 50	
	Ellen L. Floyd.....	91 25	
	Ida J. Clark.....	82 50	
	Fannie B. Edwards.....	42 50	
	Nellie A. Coburn.....	42 50	
	William F. Parsons.....	80 00	
	Hattie S. Simpson.....	50 00	
	M. Elizabeth Ham.....	17 50	
	Mary A. Williams.....	48 75	
	Eugenia L. Hogan.....	38 75	

<i>Amount carried forward</i>	\$617 25	<hr/>	\$158,229 93
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AUDITOR'S REPORT.

33

Amounts brought forward..... \$617 25 \$158,229 93

Paid for INSTRUCTION:

FRANKLIN SCHOOL.

Alice B. Besse.....	48 75	
Mary S. Gerry.....	1 25	
	<hr/>	717 25

GREEN SCHOOL.

To Charles A. Gilday.....	\$66 00	
Lizzie F. Brennan.....	96 25	
Julia A. Williams.....	81 25	
Mary A. Farnham.....	91 25	
Mary A. Morse.....	41 25	
Katie F. Keyes.....	40 00	
Katie F. McCarthy.....	91 25	
Annie Courtney.....	91 25	
Margie Marren.....	41 25	
F. J. O'Donoghue.....	88 00	
Theresa M. Hickey.....	50 00	
	<hr/>	777 75

MOODY SCHOOL.

To Josephine L. Fiske.....	\$154 00	
Carrie Erskine.....	91 25	
Mary E. Smith.....	96 25	
Carrie M. Hart.....	91 25	
Abby A. Hayward.....	41 25	
Minnie A. Wilson.....	13 75	
Delia J. Smith.....	50 00	
Hattie A. Palmer.....	50 00	
Esther Green.....	50 00	
Elizabeth R. Stevens.....	50 00	
	<hr/>	687 75

VARNUM SCHOOL.

To William P. Barry.....	\$154 00	
Lizzie A. Robertson.....	96 25	
Bertha Gardner.....	41 25	
Minnie E. Packard.....	41 25	
Alice A. Holtham.....	50 00	
Ellen M. Parsons.....	50 00	
Agnes T. Fay.....	50 00	
	<hr/>	482 75

WORTHEN STREET.

To Gertrude Sheldon.....	\$154 00	
Kate B. Symonds.....	41 25	
	<hr/>	
<i>Amounts carried forward</i>	\$195 25	\$160,895 43

Amounts brought forward..... \$ 195 25 \$160,895 43

Paid for INSTRUCTION:

WORTHEN STREET.

To Ida E. Bisbee.....	91 25	
Mary J. Murphy.....	91 25	
Anna I. Rodliff.....	91 25	
Elizabeth A. Hart.....	41 25	
Genevra M. Dunn.....	91 25	
Mary J. Griffin.....	50 00	
Lizzie A. Molloy.....	48 75	
		<hr/> 700 25

Paid for services of JANITORS:

To Warren N. Roberts.....	\$85 00	
George Callahan.....	41 00	
Thomas F. Hanafin.....	77 00	
Peter F. Kelley.....	33 00	
Patrick Donahue.....	90 00	
George F. Kivlan.....	73 00	
Andrew Maguire.....	77 00	
Bernard F. McAnulty.....	33 00	
George A. Philbrick.....	100 00	
Thomas J. Duffy.....	33 00	
George J. Wyman.....	49 00	
George Teel.....	28 00	
Edward Burns.....	33 00	
Thomas F. Barry.....	77 00	
Timothy McNamara.....	77 00	
Patrick McGilley.....	77 00	
Michael J. Lynch.....	44 00	
William J. Goodro.....	44 00	
Patrick Buckley.....	44 00	
James F. Sullivan.....	44 00	
James H. McKinley.....	44 00	
Michael M. Doyle.....	40 00	
		<hr/> 1,243 00

Paid for SUNDRIES:

To Appropriation for Public Buildings, for labor.....	\$ 14 65	
Lowell Gas Light Co., for gas.....	769 00	
John Gilchrist, for pipe, tips and labor.....	6 79	
H. C. Church & Son, for letter file..	1 25	
Coughlin & Co., for blank books....	4 10	
		<hr/>
<i>Amounts carried forward</i>	\$795 79	\$162,838 68

Amounts brought forward..... \$795 79 \$162,838 68

Paid for SUNDRIES:

To Citizen Newspaper Co., for postals, printing and advertising.....	18 25	
Campbell & Hanscom, for printing..	10 50	
F. E. Johnson, for printing.....	70 50	
Marden & Rowell, for printing.....	4 25	
A. V. Partridge, for posting.....	7 50	
John A. Smith, for cash paid for travelling expenses.....	2 00	
Michael McDermott, for labor.....	10 00	
Charles F. Keyes, for carriage hire..	12 00	
E. H. Morse, for carriage hire.....	12 50	
		943 29

DRAWING SCHOOL.

Paid for INSTRUCTION:

To J. Nelson Dennis.....	\$215 25	
Fred W. Farnham.....	211 75	
Willard M. Foster.....	280 00	
Samuel G. Stephens.....	287 00	
Fred W. Stickney.....	280 00	
Ellen D. Carney.....	498 00	
Isabella Coburn.....	287 00	
Mary E. Cushing.....	238 50	
Abbie F. Davis.....	246 00	
Ella C. Green.....	328 00	
Hulda J. Leavitt.....	384 00	
Olive E. Underhill.....	246 00	
Helen W. Wright.....	492 00	
		3,993 50

Paid for services of JANITORS:

To Michael McDermott.....	\$118 75	
John H. Quinn.....	115 00	
		233 75

Paid for SUNDRIES:

To Appropriation for Public Buildings, for lumber and labor.....	\$ 93 75	
Lowell Gas Light Co., for gas.....	310 21	
Middlesex Electric Light Co., for lighting.....	105 00	
Amasa Pratt & Co., for lumber.....	12 61	
Horace B. Shattuck, for hardware..	70	
<i>Amounts carried forward</i>	\$522 27	\$168,009 22

Amounts brought forward..... \$522 27 \$168,009 22

Paid for SUNDRIES:

To Frederick Taylor & Co., for hard- ware.....	15 32	
H. R. Barker, for reflectors and labor.....	19 70	
S. G. Mack & Co., for iron pan.....	2 00	
Wallingford & Callaghan, for tin and sifter.....	4 20	
C. B. Coburn & Co., for oil, alcohol, shellac and brushes.....	5 53	
H. C. Church & Son, for paper.....	1 20	
Offutt & Whitaker, for stools.....	16 20	
Art Interchange Co., for subscrip- tions.....	3 90	
Art Amateur, for subscription.....	4 00	
Bachelor, Dumas & Co., for blank books.....	6 50	
Edward Dunmire, for easel.....	25 50	
Paul A. Garey & Co., for clay, plas- ter, models and labor.....	74 80	
Mary E. Cushing, for studies.....	6 01	
Ellen D. Carney, for modelling tools, copies, labor, etc.....	22 40	
J. Nelson Dennis, for cash paid for sponge, brush, gum arabic and bottle.....	1 83	
Samuel G. Stephens, for diagrams..	57 00	
Fred W. Stickney, for drawings, etc.	53 15	
Olive E. Underhill, for labor.....	7 50	
Citizen Newspaper Co., for printing and advertising.....	12 00	
Campbell & Hanscom, for advertis- ing.....	75	
Morning Mail Co., for printing.....	11 75	
Marden & Rowell, for advertising..	75	
James T. Trask, for teaming.....	4 10	
U. S. and C. Express, for transpor- tation.....	60	
		878 96
Whole expenditure for the year.....		\$168,888 18

SCHOOL HOUSES.

Balance undrawn Jan. 1, 1886.....	\$11,424 98	
Appropriated and assessed in 1886..	33,000 00	
	<hr/>	\$44,424 98

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF SCHOOL-
HOUSES:

From Appropriation for Schools, for desks, blackboards, chart stands, labor, etc.....	\$303 02	
Appropriation for Schools, for one- half cost of bell on Highland school house.....	190 00	
Thomas Drury, for old lumber....	3 00	
Hooper Bros., for wire lathing and blackboard material.....	24 00	
E. W. Hooper, for water.....	96	
John O. Hoyt, for brass plugs....	1 40	
John Lynch, for stove.....	5 00	
St. Paul's M. E. Church, for black- board.....	5 50	
Thorndike Manfg. Co., for ventila- tor.....	6 00	
	<hr/>	538 88
		<hr/> \$44,963 86 <hr/>

EXPENDITURES.

Paid for LAND AND SCHOOL
HOUSE ON WEED STREET:

To Sundry persons, for labor as per pay rolls.....	\$525 11
<i>Amount carried forward.....</i>	<hr/> \$525 11

Amount brought forward \$ 525 11

Paid for LAND AND SCHOOL
HOUSE ON WEED STREET:

To Appropriation for Roads and Bridges, for services of City Engineer and assistants.....	35 70
Appropriation for Water Works, for pipe and labor.....	19 25
Michael Corbett, for 19,883 square feet of land	1,988 30
Cyrus P. Barclay, for labor and material as per contract.....	4,450 00
Cyrus P. Barclay, for extra labor...	85 08
P. O'Hearn, for labor and material as per contract.....	933 50
A. L. Brooks & Co., for lumber.....	2 62
A. P. Bateman, for lumber.....	46 17
Amasa Pratt & Co., for lumber.....	10 74
John C. Bennett, for hardware... .	1 38
H. R. Barker, for heating apparatus, etc.....	246 89
T. Costello & Co., for pipe, fittings, marble slabs and labor.....	126 92
Scannell & Wholey, for boiler.....	162 00
C. B. Coburn & Co., for oil, shellac, alcohol, paints, sash cord, etc..	57 25
A. L. Kittredge, for oil, spirits tur- pentine and shades.....	35 00
W. H. Spalding & Co., for lead.....	20 71
William Kittredge, for brick and fire clay.....	9 80
William E. Livingston, for brick...	16 00
Whithed & Co., for brick and cement.	28 80
Robert Goulding, for slating.....	486 03
Bernard Riley, for filling and labor.	383 61
Fred W. Stickney, for plans.....	227 50
Adams & Co., for chairs.....	11 50
A. G. Whitcomb, for seats.....	34 55
Campbell & Hanscom, for advertis- ing.....	8 44
Citizen Newspaper Co., for advertis- ing.....	9 13
Daily News, for advertising.....	8 87
Lowell Weekly Sun, for advertising.	3 00
Morning Mail Co., for advertising..	8 50
Marden & Rowell, for advertising..	7 03

Amount carried forward \$9,989 38

Amount brought forward \$9,989 38

Paid for LAND AND SCHOOL
HOUSE ON WEED STREET:

To Vox Populi Press, for advertising...	1 50	
James Leach, for teaming.....	75	
J. D. Mason, for teaming.....	1 00	
William Roberts, for teaming.....	1 00	
B. & M. R. R., for transportation...	68	
	<hr/>	\$9,994 31

Paid for ADDITION TO VARNUM
SCHOOL HOUSE:

To Sundry persons, for labor as per pay roll.....	\$277 38	
Appropriation for Roads and Bridges, for services of City Engineer and assistants.....	6 00	
P. O'Hearn, for labor and material per contract.....	390 55	
Patrick B. Quinn, for labor and material per contract.....	5,889 00	
Sweatt & Davis, for stone and labor.	297 00	
Merrill & Cutler, for plans and spec- ifications.....	246 60	
H. R. Barker, for pipe, fittings, labor, etc.....	240 11	
T. Costello & Co., for plumbing, pipe, fittings and labor.....	119 87	
Robert Goulding, for slating.....	258 82	
John O. Hoyt, for lightning rods and labor.....	93 52	
Corcoran & Conlan, for cement.....	75	
William E. Livingston, for sand....	1 00	
A. H. Andrews & Co., for desks and seats.....	374 00	
C. B. Coburn & Co., for varnish, glass, brushes, etc.....	28 00	
A. L. Kittredge, for oil and spirits turpentine.....	10 00	
W. H. Spalding & Co., for lead, shades and fixtures.....	58 40	
Campbell & Hanscom, for advertis- ing.....	5 31	
Citizen Newspaper Co., for advertis- ing.....	6 00	
Daily News, for advertising.....	4 88	

<i>Amounts carried forward</i>	<hr/> \$8,307 19	<hr/> \$9,994 31
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Amounts brought forward..... \$8,307 19 \$9,994 31

Paid for ADDITION TO VARNUM
SCHOOL HOUSE:

To Lowell Weekly Sun, for advertising.	3 00	
Morning Mail Co., for advertising..	6 00	
Marden & Rowell, for advertising..	3 29	
Vox Populi Press, for advertising...	1 50	
	<hr/>	8,320 98

Paid for LUMBER, HARDWARE,
ETC.:

To Otis Allen & Son, for lumber.....	\$ 42 68	
A. L. Brooks & Co., for lumber.....	185 23	
A. P. Bateman, for lumber.....	25 42	
Badger & Holmes, for lumber and labor.....	2 70	
Burnham & Moran, for lumber.....	260 60	
Carter and Bemis, for labor on lum- ber.....	16 40	
Parker & Cheney, for lumber.....	5 00	
Amasa Pratt & Co., for lumber, sash and labor.....	258 58	
J. G. Peabody & Sons, for windows.	107 90	
Whitney & Tibbetts, for lumber....	197 56	
Charles E. Adams, for hardware....	9 39	
John C. Bennett, for hardware.....	27 78	
Bartlett & Dow, for hardware.....	13 35	
H. B. Shattuck, for hardware.....	84 09	
Frederick Taylor & Co., for hard- ware.....	71 70	
Boutwell Bros., for iron.....	60	
John J. Lambe, for brass corners...	8 25	
John O. Hoyt, for lightning rods...	658 59	
William Blake & Co., for bell and hangings for Highland school house.....	343 35	
Sweatt & Davis, for stone steps....	9 00	
	<hr/>	2,328 17

Paid for SUNDRIES:

To Sundry persons, for labor as per pay rolls.....	\$4,423 46	
Sundry persons, for services as jani- tors.....	14,112 45	
	<hr/>	
<i>Amounts carried forward</i>	\$18,535 91	\$20,643 46

Amounts brought forward..... \$18,535 91 \$20,643 46

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for services of City Engineer, sidewalk assessment and labor..	63 26
O. E. Averill, for blacksmithing....	2 00
H. R. Barker, for labor.....	5 15
T. R. Garity & Co., for changing steam pipes, etc., per contract..	468 00
Lowell Brass Foundry, for castings.	1 30
Peter Monahan, for irons.....	55
W. A. Mack & Co., for labor, etc...	22 50
Scannell & Wholey, for castings and labor.....	6 15
Samuel Young, for locating lightning rods.....	22 50
T. Costello & Co., for pipe, solder and labor.....	7 61
C. B. Coburn & Co., for shellac, spirits turpentine, alcohol, paint, glass, etc.....	394 91
A. L. Kittredge, for oil and spirits turpentine.....	43 79
Jonathan Kendall & Co., for oil and glue.....	4 07
W. H. Spalding & Co., for lead, glass, etc.....	124 54
J. W. Bennett & Co., for roofing....	12 08
Philip Ginty, for slate, zinc and labor.....	9 91
Robert Goulding, for slate, zinc and labor.....	152 31
S. D. Butterworth, for mason work and material.....	13 00
E. W. Coburn, for mason work and material.....	67 26
Coburn & Crosby, for mason work and material.....	439 00
E. W. Hooper, for mason work and material.....	172 50
P. O'Hearn, for mason work and material.....	155 70
D. M. Prescott, for mason work and material.....	126 70
Rollins & Sargent, for mason work and material.....	134 30

Amounts carried forward..... \$20,985 00 \$20,643 46

Amounts brought forward..... \$20,985 00 \$20,643 46

Paid for SUNDRIES:

To E. A. & A. T. Smith, for concrete...	686 46	
William Kittredge, for lime and cement.....	32 20	
William E. Livingston, for lime, cement and sand.....	21 49	
Staples Bros., for drain pipe and brick.....	6 43	
H. S. Foster, for maple trees.....	10 00	
H. W. Tarbell, for maple trees.....	18 00	
Atkins & Harmon, for keeping horse.	260 80	
George A. Chase, for cash paid for travelling expenses.....	4 20	
P. W. Brown, for manure and labor.	25 25	
O. Bartlett, for teaming.....	50	
F. C. Gill, for teaming.....	2 00	
C. H. Hanson & Co., for teaming...	33 20	
D. P. Knowlton, for teaming.....	3 50	
Timothy Kelley, for teaming.....	50	
T. G. Little, for teaming.....	34 75	
James Leach, for teaming.....	6 65	
J. D. Mason, for teaming.....	1 25	
D. W. Mosher, for teaming.....	50	
Daniel McCarthy, for teaming.....	9 25	
Alphonso Merrill, for teaming.....	2 25	
James Nixon, for teaming.....	12 50	
William Roberts, for teaming.....	5 50	
C. D. Starbird, for teaming.....	5 75	
H. J. Shattuck, for teaming.....	4 25	
Samuel Tompkins, for teaming.....	1 00	
George Tompkins for teaming.....	50	
George Thorpe, for teaming.....	1 00	
B. & L. R. R., for transportation...	6 73	
		22,181 41
Whole expenditure for the year.....		\$42,824 87

TRANSFERS.

To Appropriation for Paupers.....	\$226 92	
Appropriation for Commons.....	52 65	
Appropriation for Police.....	294 74	
Appropriation for City Library.....	315 31	
		889 62
Balance undrawn Jan. 1, 1887.....		1,249 37
		\$44,963 86

ROADS AND BRIDGES.

on Jan. 1, 1886.....	\$ 8,087 22	
and assessed in 1886.....	70,000 00	
	<hr/>	\$78,087 22

RECEIPTS.

MATERIAL, LABOR,

ations for Schools, for	\$1,044 32
.....	
ation for School Houses,	
or.....	54 03
ation for Paupers, for	
keeping horse, etc.....	1,938 49
ation for Police, for labor.	48 38
ation for Fire Depart-	
for labor.....	429 22
ation for Sewers and	
, for labor, keeping horse.	2,228 65
ation for Commons, for	
g horse and labor.....	219 45
ation for Lighting, for	
a frames and labor.....	147 49
ation for Public Build-	
or labor.....	59 18
ation for City Hall Build-	
t, for labor.....	23 25
ation for Health, for ma-	
and labor.....	585 18
Appropriation for Water Works,	
for labor and material.....	667 40
Appropriation for Taylor Street,	
for lumber and labor.....	94 04
Reserved Fund, for labor, etc....	1,460 48

<i>Amounts carried forward</i>	<hr/> \$8,999 56	<hr/> \$78,087 22
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Amounts brought forward \$8,999,56 \$78,087 22

Received for MATERIAL, LABOR,
ETC.:

From B. & L. R. R., for sand and labor.	13 60	
Lowell Horse R. R. Co., for labor.	381 50	
County of Middlesex, for labor...	31 88	
Jacob Baron, for edgestone and labor.....	57 32	
George A. Chase, for edgestone...	2 88	
Coburn Shuttle Co., for edgestone and labor.....	116 47	
A. G. Cumnock, for edgestone and labor.....	2 26	
Highland Methodist Church, for edgestone and labor.....	32 75	
Charles Roughan, for edgestone and labor.....	13 61	
George E. Stanley, for edgestone.	26 08	
John H. Harrington, for labor....	4 12	
C. H. Hanson, for sale of street sweepings, lumber, stone, harness, etc.....	64 23	
Isaac Hale, for sale of old lumber.	11 50	
William E. Livingston, for horse.	50 00	
W. W. Carey, for coal and labor..	55 14	
Warren C. Crosby, for coal and labor.....	21 90	
Charles Howard, for coal and labor.	32 96	
George F. Lawton, for coal and labor.....	60 61	
James McQuade, for coal and labor.....	10 74	
Henry C. Pike, for coal and labor.	22 76	
Mrs. Sylvester Sullivan, for coal and labor.....	22 55	
	<hr/>	10,033 82

Received for SIDEWALK ASSESS-
MENTS:

From Esther Eno Gratton, Lilley avenue.....	\$32 19	
Charles F. Butters, Lilley avenue.	36 85	
Ann Donovan, Madison street....	24 00	
James Scott, Madison street....	28 80	
John Frawley, Madison street....	21 91	
<i>Amounts carried forward</i>	<hr/> \$143 75	<hr/> \$88,121 04

Amounts brought forward..... \$143 75 \$88,121 04

Received for SIDEWALK ASSESS-
MENTS:

From John A. Maguire, Madison street.	42 91
Mary E. Hornby, Madison street..	16 13
Thomas Markham, Madison street.	21 70
Stephen Baker, Madison street...	19 68
John Gildee, Madison street.....	25 92
Estate of Joshua Hanchett, Rock street.....	34 66
Jane M. Raymond, Rock street...	28 03
Kitson Machine Co., Worthen street.....	129 22
Kitson Machine Co., Worthen street.	79 00
Kitson Machine Co., Worthen street.....	77 42
Mrs. Robert A. Gilchrist, Lincoln street.....	23 00
David True, Lincoln street.....	23 00
David True, Lincoln street.....	38 50
Charles F. Urann, Lincoln street.	23 00
Thomas Spencer, Lincoln street..	46 00
John Mogan, Lincoln street.....	23 00
Simon Brennan, Lincoln street...	23 00
Julia Crawford, Lincoln street...	23 00
Moses Ferris, Lincoln street.....	23 00
William A. Crompton, Lincoln street.....	23 00
Mary Ricker, Manchester street..	15 03
Catherine C. Brown, Grand street.	17 59
Julia A. Butterfield, Grand street.	73 20
William K. Thompson, Hildreth street.....	17 39
John Griffin, Agawam street.....	9 59
Ann Buttermore, Agawam street..	9 18
Rebecca Barry, Taylor street.....	21 54
Owen Cahill, Chapel street.....	18 08
Bradbury D. Brown, Read street..	123 12
F. B. Shedd and E. A. Shedd, trus- tees, High street.....	133 60
F. B. Shedd and E. A. Smith, trus- tees, High street.....	169 98
John McEvoy, Hildreth street...	13 54
Charles H. Cressevell, Lincoln street.....	46 00

Amounts carried forward..... \$1,554 76 \$88,121 04

Amounts brought forward..... \$1,554 76 \$88,121 04

Received for SIDEWALK ASSESS-
MENTS:

From Mary Allright, Lincoln street....	46 00
Catherine Beatty, Lincoln street..	23 00
Mary A. Fleck, Lincoln street ...	37 86
John Sullivan, Lincoln street....	23 00
James Grady, Lincoln street.....	46 00
Frank Fay, Lincoln street.....	41 17
Ellen Spencer, Lincoln street....	23 00
Ellen Spencer, Lincoln street....	23 00
Charles T. Rowland, Wamesit street.....	117 00
William H. Simmons, Grand street.	19 22
Mary Ann Kelley, Agawam street.	31 18
Richard Cuff, Agawam street.....	9 00
Dennis McCluskey, Agawam street.	61 70
Jeremiah Ring, Agawam street...	9 00
John Barrington, Agawam street.	9 00
Mrs. Peter S. Smith, Agawam street.....	18 00
Mrs. Peter S. Smith, Agawam street.....	18 00
Mrs. Peter S. Smith, Agawam street.....	31 40
Maurice Kearney, Agawam street.	29 74
Aldis L. Waite, Grand street.....	52 04
Mortimer B. Ranlett, Queen street.	18 68
George R. Stedman, West Adams street.....	37 40
James M. Pearson, Mount Vernon street.....	2 26
John G. Stedman, Marginal street.	114 56
William C. Witham, Wamesit street.....	15 93
Mary and Theresa Lynch, Wame- sit street.....	44 33
George F. Libby, Wamesit street.	36 00
Trustees of Dartmouth College, Rock street.....	109 47
George D. Furber, Grand street...	9 54
B. F. Stevens, Grand street.....	22 10
George M. Dole, Grand street....	18 77
John Hongerman, Taylor street..	29 74
J. M. G. Parker, Varnum street..	77 00
James Orwell, Lincoln street.....	23 00

Amounts carried forward..... \$2,781 85 \$88,121 04

Amounts brought forward..... \$2,781 85 \$88,121 04

Received for SIDEWALK ASSESS-
MENTS:

From Edwin Lamson, Lincoln street....	23 55
John Huse, Lincoln street.....	23 00
Robert G. Bartlett, Fletcher street.	18 72
Horace E. Moody, Agawam street.	54 73
Thomas Hardisty, Agawam street.	8 78
Hannah Huntoon, Madison street.	48 96
Hannah S. Luscomb, Branch street.	89 06
Hannah S. Luscomb, Walker street.	83 05
F. W. Chadbourne, Mount Vernon street.....	89 09
C. H. Donaldson, Lilley avenue..	73 29
D. J. Morrow, Hildreth street....	10 55
Lowell Co-operative Milk Associa- tion, Hildreth street.....	58 45
Mary E. Osgood, Queen street....	20 96
Margaret A. Bean, Queen street..	27 59
Joseph Turner, Queen street.....	112 43
Benjamin Benoit, Thirteenth street	41 66
John McSwegan, Taylor street...	33 30
Sarah Small, Taylor street.....	25 42
Bridget Rogers, Taylor street....	20 99
John Delaney, Taylor street.....	90 36
Oliver M. Harding, Thirteenth street.....	84 00
Ellen McCarty, Wamsit street....	19 53
Mary E. Fox, Hildreth street.....	16 39
Peter V. Allen, Hildreth street...	48 93
Estate of Mary E. Wright, West Adams street.....	42 23
Charles F. Howe, Wilder street...	24 50
Mrs. John W. Colburn, Queen street.....	27 34
John B. Berry, Lincoln street....	46 00
Estate of Thomas Curley, Hamp- shire street.....	47 00
Annie A. Leach, Grand street....	8 24
George F. Scribner, Belmont ave- nue.....	99 95
Hugh W. Erdis, Thirteenth street.	41 71
Amos B. French, Thirteenth street.	31 50
Freeman W. Puffer, Thirteenth street.....	23 63
Amos B. French, Thirteenth street.	44 15

Amounts carried forward..... \$4,340 89 \$88,121 04.

Amounts brought forward..... \$4,340 89 \$88,121 04

Received for SIDEWALK ASSESS-
MENTS:

From Jamas McKiernan, Taylor street..	25 31
Bartholomew Daily, Taylor street.	21 81
G. H. and A. L. Gilman, Hildreth street.....	36 81
Heirs of John C. Smith, Hildreth street.....	80 42
Davis & Sargent, Queen street....	38 72
B. F. Butler, Andrews street.....	132 80
Mary A. Corrigan, Andrews street.	20 40
Heirs of Thomas Scotchburn, Cen- tral street.....	56 56
N. J. N. Bacheller, Queen street..	31 65
N. J. N. Bacheller, Queen street..	19 90
John O'Connor, Wamesit street...	97 74
J. W. B. Shaw, Belmont avenue..	106 47
Estate of Sarah K. Whipple, Aga- wam street.....	79 49
Benjamin Shepard, Agawam street.	49 55
Ellen Meehan, Agawam street....	9 00
Francis McQuade, Lincoln street..	23 00
Thomas Nesmith, Lilley avenue..	178 72
Thomas Nesmith, Lilley avenue..	178 72
Thomas Nesmith, Lilley avenue..	317 84
Thomas Nesmith, Lilley avenue..	98 62
Michael Fagan, Agawam street...	18 00
Margaret Dunnigan, Agawam street....	8 60
Henry C. Fuller, Branch street...	46 57
Catherine McNamara, Wamesit street....	62 15
Ann Cowley, Taylor street.....	86 70
Stephen McMonagle, Hildreth street.....	23 75
Mollahan Bros., Madison street...	43 44
Mollahan Bros., Agawam street..	20 34
Heirs of F. A. Hildreth, Lilley avenue.....	190 52
J. A. Hadley and W. T. Kennes- ton, Lilley avenue.....	67 20
Silas W. Fletcher, Agawam street.	47 69
B. W. Gale, Agawam street.....	58 88
Millard F. Wright, Branch street.	30 66
Michael Maguire, Queen street...	38 53

Amounts carried forward..... \$6,687 45 \$88,121 04

Amounts brought forward..... \$6,687 45 \$88,121 04

Received for SIDEWALK ASSESS-
MENTS:

From Heirs of Jesse Smith, Queen street.	50 59	
Estate of Joseph Webber, Rock street.....	105 72	
Michael J. Lynch, Lincoln street.	23 00	
George L. Lawson, Mount Vernon street.....	80 92	
August Fels, River street.....	74 98	
Edwin A. Burgess, South Loring street.....	26 50	
Appropriation for School Houses, River street.....	50 93	
James C. Abbott, Talbot street...	141 77	
Anna R. Robbins, South Loring street.....	35 35	
John Roberts, South Loring street.	35 35	
John McCluskey, River street....	38 11	
Estate of D. G. Skillings, River street.....	46 27	
Francis Brown, High street.....	47 00	
Julia Harrington, Davidson street.	20 93	
Enoch Messenger, Pleasant street.	6 16	
William H. Wiggin, Rock street..	27 63	
George H. Gould, South Loring street.....	35 35	
Mark B. Harriman, South Loring street.....	35 35	
John Howe, Mount Vernon street.	102 09	
Henry C. Pike, Twelfth street....	26 42	
George F. Goode, Twelfth street..	55 40	
Ann McDonald, River street.....	19 20	
John Mullaney, River street.....	18 91	
Rowena H. Read, River street....	196 46	
Francis Varley, River street.....	38 40	
William Tyrrell, River street....	19 20	
Francis Carll, Osgood street.....	52 81	
Patrick H. Riordan, Second avenue.	25 50	
William H. McKeon, Washington street.....	24 00	
		8,147 75
Transferred from Reserved Fund.		22,000 00
		<u>\$118,268 79</u>

EXPENDITURES.Paid SUPERINTENDENT OF
STREETS AND CIVIL EN-
GINEER :

To Charles H. Hanson, Superintendent of Streets, salary.....	\$1,800 00	
George E. Evans, Civil Engineer, salary.....	2,500 00	
	<hr/>	\$4,300 00

Paid SUNDRY PERSONS FOR
LABOR AS PER PAY ROLLS :

In January.....	\$5,449 01	
February.....	4,346 12	
March.....	3,979 87	
April.....	4,336 62	
May.....	6,814 78	
June.....	5,673 28	
July.....	6,963 17	
August.....	5,476 65	
September.....	5,019 20	
October.....	6,354 98	
November.....	5,269 87	
December.....	4,816 03	
	<hr/>	64,499 58

Paid for HAY, GRAIN, ETC. :

To F. A. Cutter, for straw.....	\$ 24 94	
J. B. Cover & Co., for hay, corn, meal, shorts and oats.....	774 86	
Coggin, Kidder & Co., for hay and shorts.....	854 16	
Albert E. Dearth, for hay.....	210 85	
W. P. Foye, for straw, corn, meal and oats.....	503 47	
G. M. Foster, for hay and potatoes..	167 37	
Hosmer, Crampton & Hammond, for. hay.....	413 71	
William E. Livingston, for corn, meal and oats.....	504 72	
Joseph Miller, for corn, meal, oats and shorts.....	373 96	
Parks Bros., for hay.....	217 20	
J. G. Rogers & Co., for corn, meal, oats and salt.....	441 90	
	<hr/>	
<i>Amounts carried forward.....</i>	\$4,487 14	\$68,799 58

Amounts brought forward..... \$4,487 14 \$68,799 58

Paid for HAY, GRAIN, ETC.:

To G. A. H. Richardson, for straw.....	41 23	
Charles D. Starbird, for hay.....	158 40	
A. G. Stiles & Co., for meal and oats.	94 00	
William H. Wiggin, for hay.....	222 81	
O. D. Wilder, for corn, meal and oats.	317 08	
E. N. Wood & Co., for corn and oats.	515 58	
J. J. Webster, for hay.....	449 27	
David Whitney, for hay.....	21 19	
George B. Whitney, for hay and straw.....	124 35	
John A. Woodsum, for hay and straw.	159 70	
	<hr/>	6,590 75

Paid for LUMBER, STONE, BRICK,
CEMENT, CONCRETE, ETC.:

To A. L. Brooks & Co., for lumber.....	\$92 65	
Burnham & Moran, for lumber.....	337 33	
Badger & Holmes, for lumber and labor.....	55 96	
A. P. Bateman, for lumber.....	184 69	
J. C. Bachelder, for lumber and labor.	9 75	
Davis & Sargent, for lumber.....	145 00	
William Kelley & Son, for sash....	5 00	
Amasa Pratt & Co., for lumber.....	132 05	
Whitney & Tibbetts, for lumber....	281 68	
B. G. Brown, for paving stone.....	32 03	
M. F. Downs, for paving stone, edge- stone and corner stone.....	2,153 85	
H. E. Fletcher, for paving stone and flagging.....	1,488 72	
Thomas Flynn, for paving stone....	35 78	
Robert Gardner, for breaking paving stone.....	150 00	
George N. Reed, for paving stone and edgestone.....	11,661 31	
Sweatt & Davis, for edgestone.....	196 70	
Sweatt & Reed, for edgestone.....	58 57	
C. F. Foss & Co., for brick.....	240 00	
W. F. Head & Son, for brick.....	112 50	
William E. Livingston, for brick, cement and lime.....	19 38	
Charles Spalding, for brick and lum- ber.....	245 80	
	<hr/>	
<i>Amounts carried forward</i>	\$17,638 75	\$75,390 33

Amounts brought forward \$17,638 75 \$75,390 33

Paid for LUMBER, STONE, BRICK,
CEMENT, CONCRETE, ETC.:

To Staples Bros., for brick, drain pipe and grates.....	158 50	
P. O'Hearn, for stone.....	5 00	
J. W. Bennett, for gravel.....	153 90	
Willard Coburn, for gravel.....	13 60	
B. P. Marshall, for gravel.....	2 00	
Mrs. Robert Park, for gravel.....	3 13	
Charles D. Starbird, for gravel.....	66 00	
Thomas Varnum, for gravel.....	28 08	
E. A. & A. T. Smith, for concrete...	6,254 53	
	<hr/>	24,323 49

Paid for IRON, STEEL, HARD-
WARE, TOOLS, ETC.:

To Sager Ashworth & Co., for rasps, files and labor.....	\$57 52	
Charles E. Adams, for hardware, tools, etc.....	160 04	
John C. Bennett, for hardware and tools.....	144 69	
Bartlett & Dow, for hardware and tools.....	79 88	
Chandler & Farquhar, for steel tape.	11 52	
H. B. Shattuck, for hardware and tools.....	37 49	
Frederick Taylor & Co., for hard- ware, tools, etc.....	72 02	
Boutwell Bros., for iron, steel, etc..	751 35	
	<hr/>	1,314 51

Paid for HORSES, HARNESES,
CARRIAGES, ETC.:

To D. Lovejoy, for horse.....	\$250 00	
B. Packard, for difference between horses exchanged.....	175 00	
George F. Allen, for horse net.....	3 00	
A. C. Bond, for leather and trim- mings.....	38 83	
Willard A. Brown, for thread and blacking.....	5 34	
Coe & Brown, for harness leather...	65 13	
Hill & Langtry, for leather, trim- mings, blankets, etc.....	446 90	
	<hr/>	
<i>Amounts carried forward</i>	\$984 20	\$101,028 33

Amounts brought forward..... \$984 20 \$101,028 33

Paid for HORSES, HARNESSSES,
CARRIAGES, ETC.:

To Lowell Rubber Co., for enamel cloth.	2 40	
A. C. Sawyer, for curry combs, blankets and sponge.....	17 70	
Cahill Bros., for repairing sleigh....	20 85	
Henry J. Draper, for painting carriage.....	7 00	
Sawyer Carriage Co., for repairing carriage.....	28 85	
R. T. Snow, for difference between wagons exchanged.....	60 00	
	<hr/>	1,121 00

Paid for LAND AND DAMAGES:

To C. C. Hutchinson, for damage to carriage.....	\$56 20	
Lowell Bleachery Co., for land taken to widen Meadowcroft street, per resolution passed in 1883...	1,248 60	
Julia A. Butterfield, per resolution passed in 1884.....	267 50	
Lowell Bleachery Co., on execution.	288 14	
E. A. Smith and F. B. Shedd, trustees, for damage to house on Rogers street.....	66 98	
Charles A. Stevens, per resolution passed in 1884.....	394 75	
	<hr/>	2,322 17

Paid for SUNDRIES:

To Appropriation for Schools, for coal..	\$30 11
Appropriation for Paupers, for wood.	3 50
Appropriation for Sewers and Drains, for brick and sewer assessment.	253 50
Appropriation for Public Buildings, for lumber and labor.....	4 42
Appropriation for Water Works, for water.....	218 95
H. R. Barker, for fixtures, packing and labor.....	6 42
Cole & Nichols, for castings.....	3 93
Edson Manfg. Co., for repairing sweeper.....	52 25

Amounts carried forward..... \$573 08 \$104,471 50.

Amounts brought forward..... \$573 08 \$104,471 50

Paid for SUNDRIES:

To Farrell & Conaton, for valve and float.....	2 75
Farrel Foundry and Machine Co., for repairing stone crusher.....	331 75
T. R. Garity & Co., for valve.....	1 00
J. H. Haskell, for filing saws.....	9 07
Benjamin Lawrence, for repairing derricks.....	54 00
S. G. Mack & Co., for pipe, pail and cover.....	2 00
W. A. Mack & Co., for pipe.....	36
William McLarney, for labor.....	25
A. Nourbourn, for repairing stone crusher.....	16 00
Nason B. Parsons, for filing saws and repairing locks.....	24 65
O. P. Romaine, for labor.....	3 96
Union Iron Foundry Co., for castings.....	10 98
Wallingford & Callaghan, for pail, dipper and can.....	1 10
American Lubricating Oil Co., for oil.....	7 84
Buttrick & Co., for salt.....	4 80
Borne, Scrymser & Co., for oil.....	45 60
F. & E. Bailey & Co., for horse powders.....	3 75
Coggin, Kidder & Co., for oatmeal..	34 55
C. B. Coburn & Co., for oil, tar, broom, chamois skins, sponge, etc.....	118 94
Donovan & Co., for pails.....	2 75
L. C. Dodge, for burlap.....	56
Edward Defoe, for soap.....	5 00
French & Puffer, for globes, tumblers and basket.....	5 38
J. P. Folsom & Co., for cloth.....	5 72
Josiah Gates & Sons, for scrap leather.....	38 73
Samuel Horn & Co., for soap.....	6 75
Jonathan Kendall & Co., for oil and paint.....	4 98
A. L. Kittredge, for paper.....	7 75
Langley & Smith, for stove.....	13 48

Amounts carried forward..... \$1,337 53 \$104,471 50

Amounts brought forward..... \$1,337 53 \$104,471 50

Paid for SUNDRIES:

To F. J. Ladd & Co., for oil.....	45 55
Lowell Card Co., for remnants.....	6 75
Henry Martyn, for harness cleaning material.....	5 60
Mrs. M. Meaney, for canvas and labor.....	2 50
Nichols & Fletcher, for fuse, exploders, etc.....	44 83
J. F. Puffer & Son, for brooms and baskets.....	8 42
O. B. Ranlett, for salt.....	2 70
J. B. Richardson & Sons, for soap..	4 50
W. H. Spalding & Co., for labor....	2 33
S. A. Steele, for Jamaica ginger....	2 50
George H. Sampson, for forcite and exploders.....	36 00
Talbot Dyewood and Chemical Co., for carbolic acid.....	44
Vacuum Oil Co., for harness oil....	5 80
Lowell Gas Light Co., for gas.....	136 96
N. E. Telephone and Telegraph Co., for telephone service.....	48 85
William E. Livingston, for coal....	1,258 56
Shorey & Brickett, for coal.....	135 20
A. C. Stevens, for medicine.....	1 40
Lucius M. Wright, for liniment.....	15 00
Bachelor, Dumas & Co., for blank books.....	12 00
H. C. Church & Son, for blank books, stationery, etc.....	21 46
J. Merrill & Son, for ink and brush.	3 90
A. Whitney, for blank books, paper and pencils.....	9 35
Citizen Newspaper Co., for advertising.....	21 00
Campbell & Hanscom, for advertising.....	17 75
Daily News, for advertising.....	2 62
Evening Democrat, for advertising..	9 24
Marden & Rowell, for advertising..	29 00
Morning Mail Co., for advertising...	33 77
Vox Populi Press, for advertising...	17 00
Lowell Weekly Sun, for advertising.	14 50
Thomas W. Collins, for mason work.	5 50

Amounts carried forward..... \$3,298 51 \$104,471 50

Amounts brought forward..... \$3,298 51 \$104,471 50

Paid for SUNDRIES:

To Levi M. Aldrich, for cash paid for witness fees, etc.....	20 00
George E. Evans, for cash paid for postage, expressing, repairing tape, etc.....	11 39
W. H. Harrigan, for cash paid for travelling expenses, telegrams, broom material, etc.....	20 57
George Thatcher, for cleaning clock.	1 50
L. R. J. Varnum, for services appraising damages.....	19 25
Town of Dracut, for taxes of 1886..	23 75
Peter V. Allen, for labor on Humphrey street, per contract.....	450 00
Peter V. Allen, for teaming.....	37 00
Bernard Riley, for labor on Pine street, per contract.....	1,675 00
Bernard Riley, for teaming.....	74 00
O. A. Simpson, for labor on Parker street, per contract.....	1,875 00
L. F. Kittredge, for use of derrick..	3 75
Patrick Brady, for clipping horse...	3 00
Stephen J. Johnson, for services rendered William McGuane....	6 00
J. H. Sparks, for professional services.....	1 50
Charles F. Keyes, for carriage hire and teaming.....	28 00
Michael McGuire, for use of horse in 1884 and 1885.....	58 00
Henry Emery, for labor.....	13 00
P. O'Hearn, for labor.....	50 00
Fred A. Fox, for removing night soil.....	3 50
B. G. Brown, for teaming.....	124 00
E. E. Perkins, for teaming.....	46 00
J. A. & G. C. Simpson, for teaming.	49 00
C. P. Salls, for teaming.....	24 00
C. H. Whitney, for teaming.....	48 00
George B. Whitney, for teaming....	222 00
Lovejoy-Paul Express, for transportation.....	1 50
U. S. and C. Express, for transportation.....	4 15

Amounts carried forward..... \$8,191 37 \$104,471 50

ROADS AND BRIDGES.

57

Amounts brought forward..... \$8,191 37 \$104,471 50

Paid for SUNDRIES:

To B. & L. R. R., for transportation....	88 76	
B. & M. R. R., for transportation....	1 17	
	<hr/>	8,281 30

Whole expenditure for the year.....	\$112,752 80
Transferred to Appropriation for Schools.	3,000 00
Balance undrawn Jan. 1, 1887.....	2,515 99

\$118,268 79

RESERVED FUND.

Balance undrawn Jan. 1, 1886.....	\$19,783 60	
	\$19,783 60	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From Appropriation for Sewers and Drains, for services of City En- gineer (charged to maps).....	\$3 50	
Appropriation for Commons, for services of City Engineer (charged to maps).....	15 00	
Appropriation for Water Works, for services of City Engineer (charged to maps).....	7 00	
Reserved Fund, for services of City Engineer (charged to maps).	108 50	
Geo. O. E. French, for rent of Huntington Hall.....	580 00	
John F. Cosgrove, for rent of Huntington Hall.....	2,547 00	
Commonwealth, for rent of Ar- mories.....	800 00	
County of Middlesex, for rent of Police Court Rooms.....	750 00	
Joseph S. Anderson, for rent of store in City Hall building.....	975 00	
Carleton & Hovey, for rent of store in City Hall building.....	1,200 00	
J. H. Guillet, for rent of store in City Hall building.....	900 00	
	\$7,886 00	
<i>Amounts carried forward</i>		\$19,783 60

Amounts brought forward \$ 7,886 00 \$19,783 60

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From Appropriation for Water Works, for rent of office in City Hall building.....	75 00
Talbot Dyewood and Chemical Co., for rent of store in Market House building.....	1,200 00
George A. Chase, Superintendent of Public Buildings, for rent of Ward Rooms.....	156 00
Samuel M. Chase, City Clerk, for marriage certificates.....	413 00
Samuel M. Chase, City Clerk, for sundry licenses, etc.....	1,136 24
Samuel M. Chase, City Clerk, for recording mortgages, assign- ments and liquor licenses.....	1,064 65
Samuel M. Chase, City Clerk, for naturalization certificates.....	58 00
Van B. Sleeper, City Treasurer, on account of liquor licenses.....	52,955 00
Van B. Sleeper, City Treasurer, for cost of advertising property for sale, for non-payment of taxes and sidewalk assessments.....	163 34
Richard J. Noonan, Superintend- ent of City Scales, for fees for weighing.....	452 87
Richard J. Noonan, Measurer of Wood and Bark, for fees for measuring.....	193 75
Nathaniel E. Annis, Sealer of Weights and Measures, for fees.	228 92
James T. Murray, Sealer of Weights and Measures, for fees.	120 00
B. & L. R. R., for sealing.....	7 54
Alvin A. Hanscom, Milk Inspec- tor, for licenses.....	126 00
Lucy Liberty, for peddler's license.	25 00
William H. Whiting, for peddler's license.....	25 00
Catherine McCarthy, for overdraft.	1 70

Amounts carried forward \$66,288 01 \$19,783 60

Amounts brought forward \$66,288 01 \$19,783 60

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From the following persons for costs of
preparing sundry estates for sale
for non-payment of taxes and
sewer assessments:

William H. Parker, on estate of Daniel Murphy	15 60
Daniel J. Donahoe, on estate of Daniel Murphy	5 20
Daniel J. Donahoe, on estate of John Morrill	10 40
Daniel J. Donahoe, on estate of Simon Kelly	5 20
Arnold S. Welch, on estate of Heirs of Thomas Scotchburn . . .	10 40
A. S. Tyler, on estate of Sarah S. Thomas	10 40

The following persons for amounts
over and above the taxes, costs
and interest on estates sold for
non-payment of taxes:

William H. Parker, on estate of Daniel Murphy	1,096 49
Daniel J. Donahoe, on estate of John Morrill	181 36
John F. Webster, for labor at Ed- son Cemetery	234 25
John F. Webster, for sale of hay and wood	41 50
George Richardson, for care of lot in cemetery in 1884	4 00
F. A. Vickery, for care of lot in cemetery in 1884	3 00

John J. Colton, for sale of lots in
Edson Cemetery in 1885, as
follows:

Mary A. Gale, Section Y, Lot 18..	2 00
James Pearson, Section Z, Lot 381.	10 00
William W. Locke, Section Z, Lot 388	10 00

Amounts carried forward \$67,927 81 \$19,783 60

Amounts brought forward..... \$67,927 81 \$19,783 60

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From C. B. F. Hoyt, Section Z, Lot 370.	10 00
G. E. Adams, Section Y, Lots 27, 28 and 29.....	6 00
Henry Jackson, Section Z, Lot 389.	10 00
A. E. Knapp, Section Z, Lots 394 and 395.....	20 00
James Witherhead, Section Z, Lot 396.....	10 00
Ellery T. Savage, Section Z, Lot 402.....	10 00
Isabella A. Van Tassen, Section Z, Lot 408.....	7 50
Flossa Newhall, Section Y, Lot 2.	2 00
Nellie Ellis, Section Y, lot 25....	2 00
J. A. Donaldson, Section Y, Lot 20.....	2 00
Etta E. Lagrange, Section Y, Lot 21.....	2 00
James Taylor, Section Y, Lot 22.	2 00
James Needham, Section Z, Lot 409.....	10 00
William H. Wallace, Section Y, Lot 23.....	2 00
Sarah H. Butler, Section Y, Lot 24.....	2 00
Joseph B. Chase, Section Y, Lot 16.....	2 00
Levi B. Hall, Section Z, Lot 404..	10 00
Joseph B. Darwin, Section Y, Lot 32.....	2 00
Allen Speers, Section Y, Lot 36..	2 00
-----, Range 69, Lot 3...	4 00
Mrs. P. Howard, Section Z, Lot 383.....	10 00
Emma Frost, Section Y, Lot 53...	2 00
John J. Colton, for sale of lots in Edson Cemetery in 1886, as fol lows:	
George H. Edson, Section Y, Lot 52.....	2 00
Henry Mitchell, Section Y, Lot 37.	2 00

Amounts carried forward..... \$68,061 31 \$19,783 60

RESERVED FUND.

63

Amounts brought forward..... \$68,061 31 \$19,783 60

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From D. S. Field, Section Z, Lot 403...	7 50	
O. Aubre, Section Y, Lot 51.....	2 00	
John Boyd, Section Y, Lot 50....	2 00	
John Hamilton, Section Y, Lot 49.	2 00	
Margaret Clark, Section Y, Lot 38.	2 00	
William Keyes, Section Y, Lot 48.	2 00	
Bessie H. Patterson, Section Y, Lot 46.....	2 00	
Charles Togus, Section Y, Lot 39.	2 00	
George W. Abbott, Section Y, Lot 40.....	2 00	
J. B. Currier, Section Y, Lots 7, 41 and 47.....	6 00	
J. W. Brooks, Section Y, Lot 46..	2 00	
		68,092 81
		<u>\$87,876 41</u>

EXPENDITURES.

Paid MEASURER OF WOOD AND
BARK, AND SUPERINTEND-
ENT OF CITY SCALES:

To Richard J. Noonan, Measurer.....	\$600 00	
Richard J. Noonan, Superintendent.	200 00	
		\$800 00

Paid for SERVICES OF WARD
OFFICERS:

WARD ONE.

To Robert Dawson, Warden.....	\$10 00
William H. Dana, Jr., Clerk.....	10 00
John W. Welch, Inspector.....	6 00
Thomas Winsor, Inspector.....	6 00
Matthew H. Gilroy, Warden.....	10 00
Charles M. Brooks, Clerk.....	10 00
Martin J. Courtney, Inspector.....	3 00
William P. Maker, Inspector.....	6 00
James F. Sullivan, Inspector.....	3 00
Frank J. Feeny, Warden.....	10 00

Amounts carried forward..... \$74 00 \$800 00

<i>Amounts brought forward.....</i>	\$74 00	\$800 00
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Paid for SERVICES OF WARD
OFFICERS:

WARD ONE.

To Oscar I. Grant, Clerk.....	10 00	
Henry L. Hurd, Inspector.....	6 00	
Peter F. Kelley, Inspector.....	6 00	
	<hr/>	96 00

WARD TWO.

To Owen Horan, Warden.....	\$10 00	
Newell Abare, Clerk.....	10 00	
George L. Adams, Inspector.....	6 00	
John W. Arlin, Inspector.....	3 00	
Hugh Murphy, Inspector.....	3 00	
George H. Frye, Warden....	5 00	
William A. McEvoy, Warden.....	5 00	
Wilder C. Covill, Clerk.....	5 00	
William E. Hynes, Clerk.....	5 00	
Peter A. Fay, Inspector.....	3 00	
Thomas Kenney, Jr., Inspector.....	3 00	
Edwin L. Perry, Inspector.....	6 00	
Elias A. McQuade, Warden.....	10 00	
J. F. McKissock, Clerk.....	10 00	
William P. Barry, Inspector.....	6 00	
George P. Buckman, Inspector.....	3 00	
Lewis M. Sweatt, Inspector.....	3 00	
	<hr/>	96 00

WARD THREE.

To John F. Rogers, Warden.....	\$10 00	
Irving S. Porter, Clerk.....	10 00	
John E. Maguire, Inspector.....	6 00	
O. S. Nute, inspector.....	6 00	
James F. Dwyer, Warden.....	10 00	
Charles D. Rolfe, Clerk.....	10 00	
E. W. Huntington, inspector.....	6 00	
John J. Meade, Inspector.....	3 00	
William H. Stafford, Inspector.....	3 00	
Michael Kelley, Warden.....	10 00	
Albert G. Swan, Clerk.....	10 00	
Silas R. Coburn, Inspector.....	6 00	
James E. Hill, Inspector.....	3 00	
Jeremiah Ryan, Inspector.....	3 00	
	<hr/>	96 00

<i>Amount carried forward.....</i>		<hr/> \$1,088 00
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RESERVED FUND.

65

Amount brought forward..... \$1,088 00

Paid for SERVICES OF WARD
OFFICERS:

WARD FOUR.

To John S. Shea, Warden.....	\$10 00	
Tylon R. Scott, Clerk.....	10 00	
Patrick H. Kiernan, Inspector.....	6 00	
Mortimer Sherman, Inspector.....	6 00	
Clarence A. Abbott, Warden.....	10 00	
Charles E. Carter, Clerk.....	10 00	
Charles J. Beauregard, Inspector...	3 00	
Edwards Cheney, Inspector.....	6 00	
J. Percy Maxfield, Inspector.....	3 00	
Michael M. Doyle, Warden.....	5 00	
Thomas O. Allen, Warden.....	5 00	
Fred R. Going, Clerk.....	10 00	
John J. Foye, Inspector.....	3 00	
Philip H. Hsley, Inspector.....	3 00	
Charles E. Kimball, Inspector.....	6 00	
		96 00

WARD FIVE.

To John T. Masterson, Warden.....	\$5 00	
Edward B. Peirce, Warden.....	5 00	
Harry A. Brown, Clerk.....	5 00	
George W. Hartwell, Clerk.....	5 00	
Mathew Carnes, Inspector.....	3 00	
Fred A. Hallowell, Inspector.....	3 00	
William F. McDermott, Inspector..	3 00	
America Walton, Inspector.....	3 00	
James J. Dacey, Warden.....	5 00	
James Kelley, Warden.....	5 00	
Allen Buckminster, Clerk.....	10 00	
George L. Fowler, Inspector.....	6 00	
John F. Holland, Inspector.....	3 00	
Frank L. Richardson, Inspector.....	3 00	
George W. Batchelder, Warden.....	5 00	
Thomas G. Gerrish, Jr., Warden....	5 00	
George L. Lawson, Clerk.....	10 00	
George W. Batchelder, Inspector....	3 00	
John H. Lynch, Inspector.....	6 00	
Morton N. Peabody, Inspector.....	3 00	
		96 00

WARD SIX.

To Hugh F. Fletcher, Warden.....	\$10 00	
Alfred Gilman, Jr., Clerk.....	10 00	
<i>Amounts carried forward</i>	\$20 00	\$1,280 00

<i>Amounts brought forward</i>	\$20 00	\$1,280 00
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Paid for SERVICES OF WARD
OFFICERS:

WARD SIX.

To Waldo F. Miles, Inspector.	6 00	
Irwin A. Wilson, Inspector.....	6 00	
Edward Burns, Warden.....	5 00	
Patrick H. McDonnell, Warden.....	5 00	
Ralph F. Brazer, Clerk.....	10 00	
A. B. Balch, Inspector.....	6 00	
Charles E. McDonald, Inspector....	6 00	
Michael J. Noonan, Warden.....	10 00	
William F. Wilder, Clerk.....	10 00	
Frank Brown, Inspector.....	6 00	
Arthur McQuaid, Inspector.....	6 00	
	<hr/>	96 00

Paid for SERVICES OF CLERKS,
JANITORS, ETC.:

To Stephen J. Kirby, for services in City Treasurer's office.....	\$1,022 31	
Andrew G. Stiles, for services in City Treasurer's office.....	454 72	
Stephen C. Gallagher, for services in City Treasurer's office	339 00	
William J. Reardon, for services in City Treasurer's office.....	151 50	
Guy Morey, for services as Assistant City Clerk.....	903 26	
Belle C. Hill, for services in City Clerk's office.....	547 50	
Alice M. Gage, for services in City Auditor's office.....	547 50	
Hubert M. Potter, for services as clerk for Committee on State Aid.....	919 00	
Patrick F. Sullivan, for services as clerk for Board of Assessors....	978 11	
Stephen J. Kirby, for services as clerk for Board of Assessors....	107 40	
John B. L. Delaney, for services as clerk in Assessors' office.....	130 50	
Robert S. Fulton, for services as clerk in Assessors' office.....	40 50	
<i>Amounts carried forward</i>	<hr/> \$6,141 30	<hr/> \$1,376 00

<i>Amounts brought forward.....</i>	\$6,141 30	\$1,376 00
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Paid for SERVICES OF CLERKS,
JANITORS, ETC.:

To Joseph F. Mulcahey, for services as clerk in Assessors' office.....	252 00
Charles S. Proctor, for services as clerk in Assessors' office.....	130 50
William J. Reardon, for services as clerk in Assessors' office.....	258 75
Robert L. Read, for services as clerk in Assessors' office.....	130 50
Julian L. Whiteside, for services as clerk in Assessors' office.....	231 75
Joseph Fremean, for services as interpreter for Assessors.....	3 44
Charles D. Larochelle, for services as interpreter for Assessors.....	12 75
Matthew H. Gilroy, for services as clerk for Registrars of Voters...	61 25
Henry Hoole, for services as clerk for Registrars of Voters.....	101 25
G. W. S. Hurd, for services as clerk for Registrars of Voters.....	62 50
Joseph F. Mulcahey, for services as clerk for Registrars of Voters...	41 25
James S. Murphy, for services as clerk for Registrars of Voters...	67 50
Julian L. Whiteside, for services as clerk for Registrars of Voters...	41 25
Thomas R. Garity, for services as Probation Officer.....	400 00
Alfred Barney, for ascertaining the number of births in Ward 5 in 1885.....	37 60
Fred N. Edgell, for ascertaining the number of births in Ward 6 in 1885.. ..	21 80
James Marren, for ascertaining the number of births in Ward 1 in 1885.....	31 80
Michael H. McCue, for ascertaining the number of births in Ward 3 in 1885.....	38 00
William W. Read, for ascertaining the number of births in Ward 2 in 1885.....	22 80

<i>Amounts carried forward.....</i>	\$8,087 99	\$1,376 00
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<i>Amounts brought forward</i>	\$8,087 99	\$1,376 00
Paid for SERVICES OF CLERKS, JANITORS, ETC.:		
To H. W. Streeter, for ascertaining the number of births in Ward 4 in 1885.....	25 10	
George S. Mowe, for services as jani- tor at City Hall.....	425 00	
William M. Riley, for services as jani- tor at City Hall.....	927 50	
John W. Mevis, for services at City Hall.....	81 00	
Kate Sullivan, for services at City Hall.....	438 44	
Mary Sullivan, for services at City Hall.....	20 80	
Fred Boynton, for services as janitor of Ward-room.....	17 00	
Michael Finnegan, for services as jani- tor of Ward-room.....	4 00	
Thomas Hanafin, for services as jani- tor of Ward-room.....	2 00	
Andrew Maguire, for services as jani- tor of Ward-room.....	4 00	
John H. Quinn, for services as jani- tor of Ward-room.....	4 00	
T. H. Rogers, for services as janitor of Ward-room.....	50 00	
John F. Sparks, for services as jani- tor of Ward-room.....	13 00	
W. M. Stevens, for services as janitor of Ward-room.....	8 00	
George J. Wyman, for services as janitor of Ward-room.....	2 00	
	<hr/>	10,109 83
Paid for FUEL:		
To Appropriation for Schools, for coal...	\$45 52	
Appropriation for Roads and Bridges, for labor.....	97 51	
Appropriation for Paupers, for wood.	7 50	
William E Livingston, for coal.....	1,021 54	
	<hr/>	1,172 07
Paid for DAMAGES, COSTS, ETC.:		
To Appropriation for Police, for assist- ance rendered City Solicitor....	\$567 50	
<i>Amounts carried forward</i>	\$567 50	\$12,657 90

Amounts brought forward..... \$567 50 \$12,657 90

Paid for DAMAGES, COSTS, ETC.:

To Appropriation for Roads and Bridges, for services of City Engineer in sundry cases.....	221 88
Appropriation for Sewers and Drains, for services of City Engineer in sundry cases.....	65 76
Reserved Fund, for services of City Engineer in sundry cases.....	29 75
George F. Lawton, City Solicitor, for cash paid for expenses in sundry cases.....	66 85
John J. Pickman, City Solicitor, for cash paid for expenses in sun- dry cases.....	440 61
Willard M. Foster, for making views for City Solicitor.....	1 75
William P. Atwood, for analysis of water.....	12 00
I. I. Doane, for services as stenogra- pher.....	4 62
N. Allen, for expert testimony.....	10 00
G. J. Bradt, for professional services and expert testimony.....	261 50
Alvah S. Baker, for professional ser- vices.....	5 00
Blodgett Bros., for expert testimony.	90 00
John H. Gilman, for professional services and expert testimony..	127 00
Leonard Huutress, for professional services and expert testimony..	183 00
J. C. Irish, for expert testimony...	95 00
W. A. Johnson, for expert testimony.	3 50
Gilman Kimball, for expert testi- mony.....	50 00
L. M. Norton, for expert testimony, etc.....	12 70
George E. Pinkham, for professional services and expert testimony..	55 00
M. G. Parker, for professional ser- vices.....	5 00
C. A. Savory, for expert testimony..	25 00
Hermon J. Smith, for expert testi- mony, etc.....	22 00
C. A. Viles, for expert testimony...	20 00

Amounts carried forward..... \$2,375 42 \$12,657 90

Amounts brought forward..... \$2,375 42 \$12,657 90

Paid for DAMAGES, COSTS, ETC.:

To Samuel Young, for expert testimony, etc.....	25 10	
Channing Whitaker, for expert tes- timony.....	25 00	
Elizabeth Howe, for personal inju- ries.....	125 00	
Thomas Hayden, for injury to per- son and property	75 00	
Mary E. Keyes, for personal injury.	50 00	
John W. Reed, for diversion of water of Richardson's brook.....	500 00	
Julia Sullivan, for personal injuries.	25 97	
Judson L. Shaw, for damage to wagon.....	44 65	
P. J. Smith, for injury to horse....	25 00	
Commonwealth, for entries of writs.	3 00	
Charles S. Davis and Alvah S. Baker, for carriage hire.....	10 00	
Henry C. Pike, for use of horse and carriage.....	149 37	
Mary Choate, on execution.....	290 25	
Kate Cunane, on execution.....	3,007 79	
Catherine Hart, on execution.....	259 25	
Hannah Wicklander, on execution..	542 49	
Julius T. Adams, on execution.....	157 25	
Clarinda Otis, on execution.....	582 65	
Mary Hennessey, on execution.....	356 00	
Hannah Reagan, on execution.....	301 91	
Nathaniel Allen, on execution.....	312 70	
Shaw Stocking Co., on execution...	6,551 51	
	<hr/>	15,795 31

Paid for NEW BUILDING AT ED-
SON CEMETERY:

To Appropriation for Public Buildings, for labor.....	\$212 77	
Burnham & Moran, for lumber.....	65 49	
A. L. Brooks & Co., for lumber.....	50 02	
Amasa Pratt & Co., for lumber, doors and windows.....	101 10	
Bartlett & Dow, for hardware.....	20 25	
H. H. Wilder & Co., for thimble...	25	
P. O'Hearn, for mason work and material.....	97 43	
	<hr/>	
<i>Amounts carried forward</i>	\$547 31	\$28,453 21

Amounts brought forward..... \$547 31 \$28,453 21

Paid for NEW BUILDING AT ED-
SON CEMETERY:

To C. B. Coburn & Co., for paint and glass.....	3 06	
William Kittredge, for lime.....	1 10	
Merrill & Cutler, for plan.....	10 00	
D. P. Knowlton, for teaming.....	1 00	
James Leach, for teaming.....	1 25	
	<hr/>	563 72

Paid for SUNDRIES AT BURIAL
GROUNDS:

To Appropriation for Roads and Bridges, for labor.....	\$356 16	
Appropriation for Water Works, for water.....	93 40	
Appropriation for Water Works, for pipe, fittings and labor.....	122 05	
Burnham & Moran, for stakes.....	18 39	
Badger & Holmes, for posts.....	2 00	
Bartlett & Dow, for hardware, tools and seed.....	27 01	
Frederick Taylor & Co., for snow shovel.....	50	
J. H. Abbott, for sharpening picks.....	4 70	
John C. Bennett, for tools.....	12 80	
T. Costello & Co., for hose, couplings and labor.....	12 75	
Frank Calvert, for repairing lawn mower.....	2 50	
T. R. Garity & Co., for pipe, fittings and labor.....	5 96	
C. N. Rice, for filing saws.....	30	
Patrick McQuade, for lawn mower and plants.....	24 84	
C. B. Coburn & Co., for oil.....	60	
Donovan & Co., for brooms, brush and mat.....	4 33	
Nichols & Fletcher, for powder and fuse.....	4 25	
Adams & Co., for chairs, settees and desk.....	24 75	
Coughlin & Co., for blank books, pens and pencils.....	3 00	
J. Merrill & Son, for blank books..	1 00	
	<hr/>	
<i>Amounts carried forward</i>	\$721 29	\$29,016 93

<i>Amounts brought forward.....</i>	\$721 29	\$29,016 93
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Paid for SUNDRIES AT BURIAL
GROUNDS:

To James L. Moss, for stove and pipe..	9 00	
Wilson R. Dix, for gravel.....	3 75	
B. P. Marshall, for gravel.....	16 05	
John J. Sullivan, for sod.....	6 00	
John Little, for labor.....	198 00	
John F. Webster, for labor.....	637 87	
John Connors, for labor.....	308 83	
Edward Cavanaugh, for labor.....	303 61	
Daniel Donohue, for labor.....	301 84	
Andrew Irving, for labor.....	300 11	
Michael McKeon, for labor.....	24 50	
Patrick O'Neil, for labor.....	117 23	
	<hr/>	2,948 08

Paid for SUNDRIES AT HUNT-
INGTON HALL:

To Appropriation for Roads and Bridges, for labor.....	\$10 88	
Appropriation for Police, for ser- vices of officers.....	227 50	
Appropriation for Public Buildings, for labor.....	98 20	
Appropriation for Water Works, for water.....	70 00	
Reserved Fund, for plans.....	5 25	
A. L. Brooks & Co., for lumber.....	96	
Whitney & Tibbetts, for lumber....	6 70	
Frederick Taylor & Co., for hard- ware, etc.....	11 49	
H. R. Barker, for pipe, fittings, fix- tures and labor.....	80 75	
T. Costello & Co., for pipe, fittings, fixtures, sinks and labor.....	244 15	
L. A. Derby & Co., for lighting ap- paratus.....	85 25	
Farrell & Conaton, for globe, tips, labor, etc.....	14 10	
S. G. Mack & Co., for brush and labor.....	2 00	
W. A. Mack & Co., for cups and stove polish....	3 00	
William Kittredge, for coal.....	5 40	
	<hr/>	
<i>Amounts carried forward.....</i>	\$865 63	\$31,965 01

Amounts brought forward..... \$865 63 \$31,965 01

Paid for SUNDRIES AT HUNTINGTON HALL:

To William E. Livingston, for coal....	5 50
Stanley & Co., for coal.....	6 25
C. B. Coburn & Co., for alcohol, brooms, brushes, wicking, mirror-plates, etc.....	18 14
Carleton & Hovey, for chloride zinc, camphor and sponge.....	1 00
Talbot Dyewood and Chemical Co., for potash.....	65
Adams & Co., for carpet, oil cloth, matting, mirrors and labor....	91 94
Offutt & Whitaker, for matting, mirror-plates, etc.....	10 57
O'Donnell & Gilbride, for cloth....	3 60
A. G. Pollard, for towels.....	75
Sherman & Manning, for carpet, matting, mirrors and labor....	124 59
Whiting & Weston, for binding matting.....	2 50
Coughlin & Co., for tablet and stationery.....	1 85
Morning Mail Co., for letter-heads..	4 75
John F. Cosgrove, for cash paid for stamps, paper, soap and labor..	9 75
E. W. Coburn, for mason work and material.....	105 95
Lowell Carpet Beater and Cleanser Co., for cleaning carpets.....	2 72
S. Tompkins, for teaming.....	5 50
B. & L. R. R., for ground rent for Huntington and Jackson Halls.	475 00
Sundry persons for labor, as follows:	
Geo. O. E. French.....	81 25
John F. Cosgrove.....	847 50
George L. Adams.....	71 50
Alonzo Adams.....	7 00
L. Adams.....	4 00
Charles Adams.....	2 00
W. A. Adams.....	1 50
Charles Baxter.....	38 25
John Bréen.....	6 00
Martin Cornock.....	58 00
George W. Clement.....	45 00

Amounts carried forward..... \$2,898 64 \$31,965 01

Amounts brought forward..... \$2,898 64 \$31,695 01

Paid for SUNDRIES AT HUNTINGTON HALL:

To Sundry persons for labor, as follows:

John Cassidy.....	73 50
J. F. Convery.....	54 75
John J. Dolan.....	379 75
Charles Eastman.....	1 00
Charles Fairweather.....	13 50
Robert S. Fulton.....	56 00
Luther Harvey.....	24 00
Eugene King.....	116 50
Fred F. Munn.....	55 50
George Malley.....	52 00
William Mayo.....	75
Charles E. Smith.....	269 50
William Saunders.....	1 00
William N. Thompson.....	52 50
Jane Duffey.....	22 00
Mary Daven.....	180 10
Mrs. Dunphy.....	1 10
Mrs. Hersey.....	1 40
Mary Hasty.....	2 00
Catherine Marshall.....	38 70
Catherine McCarty.....	1 70
Kate McCafferty.....	40 30
Kate McDonald....	12 40
Mary Quinn.....	9 60
Sarah J. Smith.....	4 70

4,362 89

Paid on ACCOUNT OF MAPS AND CHARTS OF THE CITY:

To Sundry persons, for labor as per pay rolls.....

\$1,502 25

Appropriation for Roads and Bridges, for services of City Engineer, use of horse and labor.....

499 00

Appropriation for Fire Department, for wire and use of truck.....

7 40

A. L. Brooks & Co., for lumber....

26

Burnham & Moran, for lumber and labor.....

11 11

Amasa Pratt & Co., for lumber.....

19 05

Frederick Taylor & Co., for hardware and steel tape.....

18 73

Amounts carried forward.....

\$2,057 80

\$36,327 90

Amounts brought forward..... \$2,057 80 \$36,327 90

Paid on ACCOUNT OF MAPS AND
CHARTS OF THE CITY:

To Boutwell Bros., for steel.....	2 70	
Buff & Berger, for steel tape, cap, transit, etc.....	243 50	
A. Hallowell, for plumb balls and labor.....	9 06	
W. A. Mack & Co., for zinc and can.	85	
O. P. Romain, for labor.....	3 24	
J. L. Loiselie, for cloth.....	99	
A. G. Pollard & Co., for cloth.....	4 18	
Carleton & Hovey, for drugs.....	85	
Thomas M. Groom & Co., for books.	3 00	
A. L. Kittredge, for tracing cloth..	11 38	
W. H. Spalding & Co., for tracing cloth and labor.....	16 66	
Cross Bros., for repairing tent.....	1 00	
Sweatt & Davis, for bound stone...	8 00	
George E. Evans, for cash paid for travelling expenses, heliotrope, bolt, cord, etc.....	13 92	
Campbell & Hanscom, for printing.	1 50	
E. H. Morse, for carriage hire.....	4 50	
F. C. Gill, for teaming.....	1 00	
U. S. & C. Express, for transporta- tion.....	15	
Timothy Sullivan, for damage to trees, etc.....	25 00	
	<hr/>	2,409 28

Paid on ACCOUNT OF STORM
GUARD ON CENTRAL
BRIDGE:

To Appropriation for Roads and Bridges, for labor.....	\$174 65	
Appropriation for Public Buildings, for labor.....	70 00	
Reserved Fund, for services of City Engineer.....	21 00	
Burnham & Moran, for lumber.....	203 53	
H. B. Shattuck, for nails.....	2 75	
American Bolt Co., for angle irons, bolts, washers, clamps, etc.....	107 08	
	<hr/>	
<i>Amounts carried forward</i>	\$579 01	\$38,737 18

<i>Amounts brought forward</i>	\$579 01	\$38,737 18
Paid on ACCOUNT OF STORM GUARD ON CENTRAL BRIDGE:		
To A. Merrill, for teaming.....	75	
William Roberts, for teaming.....	1 00	
	<hr/>	580 76
Paid for BAND CONCERTS:		
To Lowell Cornet Band.....	\$120 00	
Mechanic Brass Band.....	125 00	
Eugene F. Morrill.....	125 00	
	<hr/>	370 00
Paid for CELEBRATION OF THE SEMI-CENTENNIAL OF THE CITY OF LOWELL:		
To Appropriation for Police, for ser- vices of officers.....	\$ 35 00	
Appropriation for Public Buildings, for labor.....	30 00	
Apollo Male Quartet, for services...	40 00	
American Orchestra, for services and expenses.....	246 32	
Harry B. Day, for services and music.....	145 73	
George Gardner, for rent of piano..	7 00	
Middlesex Mechanics Association, for rent of hall.....	20 00	
E. Sheppard & Sons, for bouquets and use of plants.....	37 60	
Abels & Son, for badges.....	58 60	
S. M. Patterson, for decorating....	75 00	
Merrimack House, for entertainment of committee, visitors and police.....	91 60	
Frank E. Shaw, for serving banquet.	280 00	
Charles H. Hobson, for cash paid for stationery and stamps.....	4 74	
J. Merrill & Son, for blank book and stationery.....	2 10	
David W. O'Brien, for services as clerk, etc.....	50 00	
Citizen Newspaper Co., for printing and advertising.....	10 00	
	<hr/>	
<i>Amounts carried forward</i>	\$1,133 69	\$39,687 94

Amounts brought forward..... \$1,133 69 \$39,687 94

Paid for CELEBRATION OF THE
SEMI-CENTENNIAL OF THE
CITY OF LOWELL:

To Campbell & Hanscom, for printing and advertising.....	20 75	
Evening Democrat, for advertising.	6 97	
Franklin Printing Co., for printing.	6 50	
Morning Mail Co., for printing and advertising.....	26 70	
Marden & Rowell, for printing and advertising.....	11 75	
Vox Populi Press, for programmes.	45 00	
Vox Populi Press, for 3,300 copies of semi-centennial exercises and binding 3,000 copies in paper covers.....	353 00	
Vox Populi Press, for binding 100 copies full calf, gilt edges.....	200 00	
Vox Populi Press, for binding 200 copies in cloth.....	40 00	
Vox Populi Press, for printing names in gilt on 25 copies.....	6 25	
Vox Populi Press, for engraving cut for cover.....	3 75	
T. R. Garity & Co., for labor.....	7 50	
J. D. Mason, for moving piano.....	10 00	
Charles F. Keyes, for carriage hire.	6 00	
E. H. Morse, for carriage hire.....	65 00	
	<hr/>	1,942 86

Paid for the CELEBRATION OF
THE TWENTY-FIFTH ANNI-
VERSARY OF THE MARCH
OF THE SIXTH REGIMENT
THROUGH BALTIMORE:

To American Orchestra, for services...	\$76 00	
G. A. R. Drum, Fife and Bugle Corps, for services.....	51 00	
F. E. Putnam, for entertainment...	8 80	
Frank E. Shaw, for banquet, etc....	404 00	
S. M. Patterson, for decorating Huntington Hall.....	100 00	
A. G. Pollard, for gloves.....	28 80	
Harry Raynes, for badges.....	103 05	
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<i>Amounts carried forward</i>	\$771 65	\$41,630 80

<i>Amounts brought forward.....</i>	\$771 65	\$41,630 80
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Paid for the CELEBRATION OF
THE TWENTY-FIFTH ANNI-
VERSARY OF THE MARCH
OF THE SIXTH REGIMENT
THROUGH BALTIMORE:

To E. Sheppard & Sons, for trimming monument.....	30 00	
Patten & Co., for bouquets and flowers.....	25 00	
Evening Democrat, for advertising.	2 50	
Morning Mail Co., for printing and advertising.....	4 75	
Vox Populi Press, for printing.....	3 75	
W. H. Saunders, for labor.....	2 00	
Charles F. Keyes, for carriage hire.	20 00	
	<hr/>	859 65

Paid for MEMORIAL DAY:

To Grand Army Posts 42, 120 and 185, per resolution.....	\$500 00	
	<hr/>	500 00

Paid for CELEBRATION OF THE
ONE HUNDRED AND TENTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To James K. Allen, for balloon ascen- sion.....	\$350 00	
Jacobs, Whitcomb & Co., for fire- works.....	850 00	
Graniteville Cornet Band, for ser- vices.....	81 60	
G. A. R. Drum, Fife and Bugle Corps, for services.....	114 00	
Lowell Cornet Band, for services...	160 00	
Mechanic Band, for services.....	120 00	
Post 120 Band, for services.....	115 00	
Thomas Butler, for prize at regatta.	25 00	
Daniel D. Driscoll, for prize at re- gatta and labor.....	47 00	
John E. Drury, for cash paid for prizes for athletic sports, car- riage hire, etc.....	86 50	
	<hr/>	
<i>Amounts carried forward.....</i>	\$1,949 10	\$42,990 45

Amounts brought forward..... \$1,949 10 \$42,990 45

Paid for CELEBRATION OF THE
ONE HUNDRED AND TENTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To Newall Goodroe, for prize at regatta.	15 00
John Tweed, for prize at regatta...	25 00
A. P. Bateman, for lumber.....	7 67
J. Green, for decorating Vesper Boat House.....	5 00
C. A. Piper, for use of steamer.....	8 00
Mass. & N. H. Steamboat & R. R. Co., for transportation.....	5 00
Harry Raynes, for badges.....	55 00
Campbell & Hanscom, for advertis- ing.....	17 42
Citizen Newspaper Co., for printing and advertising.....	157 25
Daily News, for advertising.....	10 00
Harrington Bros., for printing.....	9 50
Lowell Weekly Sun, for advertising.	10 00
Morning Mail Co., for advertising..	13 75
Marden & Rowell, for advertising..	13 75
Vox Populi Press, for advertising..	9 50
A. V. Partridge, for posting.....	56 74
Walter M. Sawyer, for cash paid for committee on fireworks.....	20 60
Walter M. Sawyer, for cash advanced to the committee of "Carnival of the Bees".....	500 10
Thomas J. Enright, for cash paid for carriage hire.....	6 00
E. W. Lovejoy, for cash paid for carriage hire..	2 50
S. B. Puffer, for cash paid for labor.	9 00
J. A. Manuel, for services.....	5 00
John Sawyer, for labor.....	50
Page & Nunn, for collation.....	7 50
G. W. Norris, for keeping horses...	4 00
Hutchins & Co., for sprinkling streets.....	20 00
C. H. Hanson & Co., for carriage hire.....	6 00
G. E. Stanley, for use of horses and trucks, and labor.....	20 00
D. E. Griffin, for teaming.....	50

Amounts carried forward..... \$3,969 38 \$42,990 45

Amounts brought forward..... \$3,969 38 \$42,990 45

Paid for CELEBRATION OF THE
ONE HUNDRED AND TENTH
ANNIVERSARY OF AMERI-
CAN INDEPENDENCE:

To Timothy Kelly, for teaming.....	50	
D. P. Knowlton, for teaming.....	1 00	
Daniel McCarthy, for teaming.....	1 50	
		<hr/> 2,972 38

Paid for SUNDRIES:

To Appropriation for Schools, for mat.	\$ 1 25	
Appropriation for Roads and Bridges, for labor.....	100 40	
Appropriation for Paupers, for wood.	8 00	
Appropriation for Police, for police service in Treasurer's office....	50 00	
Appropriation for Public Buildings, for desk, lumber, labor, etc....	210 02	
Appropriation for Water Works, for water.....	227 20	
Reserved Fund, for services of City Engineer.....	52 50	
A. L. Brooks & Co., for sawdust....	1 25	
Whitney & Tibbetts, for lumber....	3 06	
Bartlett & Dow, for hardware.....	1 65	
H. B. Shattuck, for hardware.....	4 73	
Frederick Taylor & Co., for hard- ware.....	22 24	
H. R. Barker, for pipe, globes, labor, etc.....	47 79	
T. Costello & Co., for grate.....	1 00	
L. A. Derby & Co., for labor on lighting apparatus.....	35 98	
Richard Dobbins, for repairing tar- gets.....	59 00	
Farrell & Conaton, for valve and labor.....	5 70	
Fairbanks, Brown & Co., for weights, measures and sealer's balance..	119 19	
John Gilchrist, for pipe, solder and labor.....	11 67	
T. R. Garity & Co., for globes, wash- ers and labor.....	5 65	
F. L. McGahan, for flue cleaner....	25 00	
	<hr/>	
<i>Amounts carried forward</i>	\$993 28	<hr/> \$45,962 83

<i>Amounts brought forward</i>	\$993 28	\$45,962 83
Paid for SUNDRIES:		
To S. G. Mack & Co., for tin boxes, lead, labor, etc.....	11 85	
Scannell & Wholey, for repairing and inspecting boilers, etc.....	30 38	
H. H. Wilder & Co., for pails.....	2 74	
N. J. Wier & Co., for solder.....	1 00	
C. Zimmer, for repairing lock.....	1 50	
Russell S. Clifford, for repairing clocks	1 50	
J. J. Cluin, for badge for fish war- den.....	3 00	
Durant & Rogers, for repairing clock.....	1 00	
George Hedrick, for care of High street clock.....	50 00	
Standard Cancelling Ballot Box Co., for springs, ink and labor.....	5 45	
Adams & Co., for carpet lining, lin- oleum, chairs, curtains, labor, etc.....	195 25	
Benner Bros., for hassock.....	75	
W. T. Bradley, for mat.....	1 25	
Kimball & Co., for towels.....	2 85	
Lowell Mutual Fire Insurance Co., for chairs.....	24 00	
Marshall & Crosby, for desk.....	52 00	
Offutt & Whitaker, for matting and binding.....	9 08	
J. F. Puffer & Son, for basket and brooms.....	4 50	
Sherman & Manning, for knobs....	3 60	
Charles I. Taylor & Co., for coun- ters, screens, desks, settee and door.....	217 00	
F. & E. Bailey & Co., for insect pow- der and bellows.....	2 50	
F. H. Butler & Co., for drugs.....	4 50	
C. F. Blanchard, for brooms.....	1 20	
John E. Berry, for tub.....	1 00	
Carleton & Hovey, for matches, fil- ters, insect powder, borax, etc..	4 93	
C. B. Coburn & Co., for alcohol, oil, glass, brushes, basket, rope, pail, etc.....	18 72	
<i>Amounts carried forward</i>	<u>\$1,644 83</u>	<u>\$45,962 83</u>

Amounts brought forward..... \$1,644 83 \$45,962 83

Paid for SUNDRIES:

To Fiske & Spalding, for pencils, tacks, labor, etc.....	5 90	
French & Puffer, for brooms and mugs.....	4 00	
Frank C. Goodale, for soap, medi- cine, paper, etc.....	20 95	
P. M. Jefferson & Co., for soap.....	27 00	
A. L. Kittredge, for paper.....	2 50	
C. A. Mitchell & Co., for blacking and brush.....	2 20	
John A. Roark, for soap.....	4 50	
Swan & Smith, for blacking.....	2 70	
W. H. Spalding & Co., for pencils, dusters, varnish, etc.....	18 85	
Daniel Gage, for ice.....	24 00	
Hutchins & Co., for sprinkling street.	13 00	
Automatic Bank Punch Co., for punch.....	36 00	
Bacheller, Dumas & Co., for blank books and binding.....	504 68	
J. E. Buerk, for dials for watch- man's clock.....	3 65	
Belknap & Co., for stamp, dies, plates, etc.....	23 25	
F. P. Coggeshall, for stationery, ink, etc.....	95 69	
Campbell & Hanscom, for printing, blank books, and two copies "Morning Times".....	28 00	
O. L. Cambridge, for stationery, frame and cord.....	19 67	
H. C. Church & Son, for blank books, stationery, rubber bands, etc.....	29 65	
Coughlin & Co., for blank books, pencils, penholders, etc.....	28 45	
Citizen Newspaper Co., for blank books, printing, and two copies "Daily Citizen".....	85 50	
Daily News, for printing and bind- ing precinct books.....	245 00	
Daily News, for printing.....	2 70	
Franklin Printing Co., for precinct books.....	45 00	
<i>Amounts carried forward</i>	<u>\$2,917 67</u>	<u>\$45,962 83</u>

<i>Amounts brought forward</i>	\$2,917 67	\$45,962 83
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Paid for SUNDRIES:

To J. M. Fellows, for rubber stamp....	2 50
Heliotype Printing Co, for Ward maps.....	175 00
Harrington Bros., for tags.....	2 00
F. H. Keep & Co., for paper blocks.....	2 61
George F. King & Merrill, for pen- cils.....	4 50
Lowell Rubber Type Co., for wood cuts and autographs.....	6 00
Lowell Weekly Sun, for five copies of "Weekly Sun" to April 27, 1885.....	7 17
Lowell Daily Courier, for two copies "Daily Courier".....	12 00
Marston & Prince, for blank books, stationery, etc.....	10 47
J. Merrill & Son, for directories and paper.....	70 60
Morning Mail Co., for blank books, check books, printing, and two copies "Morning Mail," two years.....	101 33
Marden & Rowell, for envelopes and printing.....	9 00
Schlicht & Field, for index.....	25 00
Sampson, Murdock & Co., for copy Boston directory and maps of Lowell.....	23 00
Vox Populi Press, for paper blocks, check lists, printing and adver- ising.....	565 10
A. V. Partridge, for posting.....	35 00
N. E. Telephone & Telegraph Co., for telephone service.....	204 26
A. P. Bonney, for professional ser- vices.....	10 00
Samuel M. Chase, for cash paid for travelling expenses, stamps, ex- pressing, pens, etc.....	32 55
David Chase, for cash paid for post- age, rent of P. O. box, pens, etc.....	19 75
G. P. Dadman, for cash paid for postage, rent of P. O. box and pens.....	22 50

<i>Amounts carried forward</i>	\$4,258 01	\$45,962 83
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<i>Amounts brought forward</i>	\$4,258 01	\$45,962 83
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Paid for SUNDRIES:

To George E. Evans, for cash paid for travelling expenses and expressing.....	4 59	
T. M. Graves, for copying resolution.....	5 00	
A. A. Hanscom, for testing milk and vinegar, and cash paid for carriage hire, stationery, etc.....	76 68	
Michael H. McCue, for cash paid for postage.....	23 93	
James T. Murray, for cash paid for travelling expenses, etc.....	10 00	
H. M. Potter, for cash paid for travelling expenses, postage, ink and mucilage.....	25 90	
Henry A. Piper, for services as expert accountant.....	116 20	
Van B. Sleeper, for cash paid for travelling expenses, stamps, expressing, etc....	165 75	
P. F. Sullivan, for expenses examining records.....	24 00	
Joseph P. Thompson, for recording, etc.....	17 95	
William M. Hoar, for medical attendance on W. M. Riley.....	240 00	
A. J. Derby, for dinners for registrars.....	4 00	
Page & Nunn, for dinners for registrars.....	4 00	
Jesse A. Viles, for examination of horse.....	2 00	
J. H. Sparks, for examination of horse.....	2 00	
Lowell Carpet Beater and Cleanser Co., for labor.....	36 08	
Charles W. Bean, for re-arranging contents of safety vault.....	25 63	
Brown & Timbers, for labor on carpets.....	23 38	
Lowell Mechanic Phalanx, for firing salutes.....	150 00	
Frank E. Lee, for ringing bell.....	3 00	
Herbert E. Webster, for chiming bells.....	10 00	

<i>Amounts carried forward</i>	\$5,228 10	\$45,962 83
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<i>Amounts brought forward.....</i>	\$5,228 10	\$45,962 83
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Paid for SUNDRIES :

To William Andrews & Co., for labor on statue of "Victory".....	40 00
Alfred Gilman & Son, for repairing flags.....	7 50
Dora A. Brooks, for repairing flags.	4 50
U. S. Bunting Co., for flag.....	29 33
S. M. Patterson, for decorating City Hall.....	50 00
E. Sheppard & Sons, for bouquets..	6 00
Marshall Blake, for rent of voting place.....	40 00
Burns Bros., for rent of voting place.	40 00
E. K. Perley, for rent of box in safety deposit vault.....	50 00
F. S. Brown, for labor.....	3 00
Michael G. Shea, for amount paid over and above the taxes, costs and interest on his estate sold for non-payment of taxes of 1881.....	93 36
Charles H. Howland, for amount paid over and above the taxes, costs and interest on his estate sold for non-payment of taxes..	29 80

The following persons for reporting
births :

S. Bartlett.....	12 75
Cornelius A. Daly.....	16 25
W. G. Eaton.....	50
Warren S. Foss.....	2 50
James B. Field.....	1 00
A. A. Gelineau.....	14 25
John H. Gilman.....	75
Delia H. Honey.....	25
Stephen J. Johnson.....	6 00
Herbert S. Johnson.....	1 75
W. A. Johnson.....	2 00
A. W. LaVigne.....	18 75
William H. Lathrop.....	11 75
Catherine Loftus.....	3 75
R. Mignault.....	16 50
J. J. McCarty.....	2 50
T. E. McOwen....	2 50

<i>Amounts carried forward.....</i>	\$5,735 34	\$45,962 83
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Amounts brought forward..... \$5,735 34 \$45,962 83

Paid for SUNDRIES:

To The following persons, for reporting births:

D. N. Patterson.....	1 50
A. Q. Phelan.....	15 50
Charles H. Ricker.....	1 25
James F. Sullivan.....	17 25
Catherine Shanley.....	5 75
A. Vincellette.....	9 50
O. A. Willard.....	75

O. Bartlett, for teaming and keeping horses.....	6 53
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Atkins & Harmon, for carriage hire.....	12 50
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George Emery, for carriage hire....	2 00
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C. H. Hanson & Co., for use of barge.....	3 00
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Charles F. Keyes, for carriage hire.....	21 00
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Lowell Standard Cab and Hack Co., for carriage hire.....	8 00
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E. H. Morse, for carriage hire.....	41 55
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G. W. Norris, for carriage hire.....	3 50
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George Richardson, for carriage hire.....	6 00
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D. P. Knowlton, for teaming.....	3 00
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T. G. Little, for teaming.....	6 00
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James Leach, for teaming.....	10 50
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J. D. Mason, for teaming.....	3 00
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Daniel McCarthy, for teaming.....	8 00
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D. W. Mosher, for teaming.....	3 00
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Alphonso Merrill, for teaming.....	5 00
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James Nixon, for teaming.....	8 00
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William Roberts, for teaming.....	4 75
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F. A. Smiley, for teaming.....	6 00
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Lovejoy-Paul Express, for transportation.....	15
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U. S. & C. Express, for transportation.....	50
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B. & L. R. R., for transportation...	25
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5,949 07

Whole expenditure for the year.....

\$51,911 90

TRANSFERS.

To Appropriation for Roads and Bridges.....

\$22,000 00

Amounts carried forward.....

\$22,000 00

\$51,911 90

RESERVED FUND.

87

Amounts brought forward..... \$22,000 00 \$51,911 90

TRANSFERS:

To Appropriation for Police...	900 00	
Appropriation for Commons.....	3,000 00	
Appropriation for Health.....	2,000 00	
	<hr/>	27,900 00
Balance undrawn Jan. 1, 1887.....		8,064 51
		<hr/>
		\$87,876 41
		<hr/>

PAUPERS.

Balance undrawn Jan. 1, 1886.....	\$ 4,584 31	
Appropriated and assessed in 1886.....	55,000 00	
		\$59,584 31

RECEIPTS.

Received into the TREASURY ON ACCOUNT OF PAUPERS:

From Appropriation for Schools, for wood.....	\$773 74	
Appropriation for Roads and Bridges, for wood.....	3 50	
Appropriation for Police, for wood.....	7 12	
Appropriation for Fire Depart- ment, for wood.....	17 00	
Appropriation for Health, for pro- visions used at Pest house.....	20 00	
Reserved Fund, for wood.....	15 50	
Commonwealth, for support of State paupers.....	379 60	
Commonwealth, for temporary support of State paupers.....	574 65	
Commonwealth, for burial of State paupers.....	361 00	
Commonwealth, for expense of contagious diseases.....	317 00	
City of Boston, for aid rendered Elizabeth Shaw, Mary Quinn, Ellen O'Donoghue and William Harrington.....	119 79	
City of Cambridge, for aid ren- dered Bridget Monahan and children.....	4 56	
<i>Amounts carried forward</i>	\$2,593 46	\$59,584 31

Amounts brought forward..... \$2,593 46 \$59,584 31

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From City of Chelsea, for board of Angela Flagg, John P. Tully and John Osborne at Reform School. 101 64

City of Fitchburg, for aid rendered Mrs. Daniel Rock, and board of Eddie Foley, Wallace Hosington, Frank Reynolds and Thomas Sullivan at Reform School..... 474 39

City of Fall River, for aid rendered Bridget Flaherity..... 11 50

City of Gloucester, for aid rendered W. H. H. Thomas..... 16 50

City of Haverhill, for aid rendered Mary G. McNamara and Bridget Stanley..... 71 15

City of Lawrence, for aid rendered Mary A. Shea, Mrs. Joseph Trehant, Babara McDonald, Mrs. William Bateman, Mary Gallagher, Mary A. Wefers, Ann Donovan. Mrs. Daniel Ashworth, Mary McLean, Mary A. Smith, George H. Allen, William A. Bagley, Thomas Cummings, Michael Cummins and James Trehant..... 478 80

City of Malden, for board of Coleman Fallon, Frank Harrington and Joseph Shuber at Reform School..... 166 10

City of Newburyport, for aid rendered Marcus Nolan and William Welch..... 22 08

City of New Bedford, for aid rendered Reuben Chapman and Riley Cochran..... 20 00

City of Salem, for aid rendered Mrs. William H. Trask..... 36 50

City of Springfield, for aid rendered children of Patrick O'Connor..... 44 50

Amounts carried forward..... \$4,036 62 \$59,584 31

Amounts brought forward..... \$4,036 62 \$59,584 31

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From City of Somerville, for aid rendered Thomas Lyons, and board of William Fallon, Fred Jennings and Joseph Leroy at Reform School.....	146 46
City of Waltham, for aid rendered Mrs. Edward Valleley, and board of Eddie Fahey and Patrick Malone at Reform School..	77 86
Town of Andover, for aid rendered Jessie Mason.....	28 35
Town of Amesbury, for aid rendered Matthias Noon and wife.	48 00
Town of Ayer, for aid rendered Henry S. Nutting.....	3 57
Town of Billerica, for aid rendered Ellen Murphy and John Bohannon and wife.....	43 50
Town of Belchertown, for aid rendered Celestia P. Chamberlin..	7 50
Town of Clinton, for aid rendered Mrs. John O'Toole, Elizabeth Smith and Catherine Taylor, and board of William Bartlett, Alex. Risdell and Patrick Tully at Reform School,.....	322 13
Town of Chicopee, for aid rendered Mrs. Charles Smith, Mary Miller and James Cahalance.....	30 75
Town of Chelmsford, for aid rendered Mrs. Damas Laduke and children of Elizabeth Donahoe.	46 50
Town of Canton, for aid rendered Mary Duncan and James E. Daniels.....	28 11
Town of Cohasset, for aid rendered William F. Harris and family.....	39 50
Town of Dedham, for aid rendered Nancy Morse.....	72 00
Town of Danvers, for aid rendered Mrs. William Henderson and Ann Welch.....	255 50

Amounts carried forward..... \$5,186 35 \$59,584 31

Amounts brought forward \$5,186 35 \$59,584 31

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From Town of Falmouth, for aid rendered Albert F. Stanton.....	3 00
Town of Lynnfield, for aid rendered George A. Abbott.....	21 00
Town of Manchester, for aid rendered Ann Quinn.....	97 00
Town of Melrose, for board of James Haynes and Randolph Nelson at Reform School.....	104 98
Town of Milford, for aid rendered Mary Quinn and board of Henry Lyons at Reform School.....	85 34
Town of Marion, for aid rendered Susan A. Holmes.....	70
Town of Marlborough, for board of William Drinkwine, Delphius Bourdelais and John Dunning at Reform School.....	129 50
Town of Natick, for aid rendered Ella Witherell.....	48 00
Town of Stoneham, for board of James F. Magner at Reform School.....	21 25
Town of Shelburne, for aid rendered James McLoughlin, alias McLane.....	10 50
Town of Tewksbury, for aid rendered Mrs. Anthony McDonald.	65 00
Town of Wellesley, for aid rendered Martha Roy.....	60 00
Town of Walpole, for aid rendered George Clark and family.	98 50
Town of Wakefield, for board of Joseph M. Hulbert at Reform School.....	136 29
Town of Woburn, for board of Edward Donahoe and John Hennessey at Reform School.....	200 10
Town of Wayland, for aid rendered Dennis Mullen.....	3 20
Flora E. Bartlett, for support of Lusylvia Bartlett at Worcester Lunatic Hospital.....	169 54

Amounts carried forward..... \$6,440 25 \$59,584 31

Amounts brought forward..... \$6,440 25 \$59,584 31

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From A. Y. Caswell, for support of Mary A. Caswell at Worcester Lunatic Hospital.....	169 46
John H. McAlvin, for support of Wilbur L. Bates at Worcester Lunatic Hospital.....	2 89
Mary Collins, for board at Dan- vers Lunatic Hospital.....	120 34
James Dugdale, for support of Robert Dugdale at Danvers Lunatic Hospital.....	72 43
Joseph K. Flint, for board of Almy J. Flint at Danvers Luna- tic Hospital.....	5 57
F. C. Plunkett, for support of John Cuddihy at Danvers Lun- atic Hospital, and burial ex- penses.....	139 59
John Quinlan, for support of Mary Quinlan at Danvers Lunatic Hospital.....	13 93
Wilder Bennett, for support of Caroline A. Bennett at Alms- house.....	169 46
Darwin M. Cressy, for support of Lodina Cressy at Almshouse...	31 64
James Dugdale, for support of Robert Dugdale at Almshouse..	152 29
Eliot Church, for support of Ann G. Moulton at Almshouse.....	1 50
Leonard J. Labounty, for support of Mercena Hallett at Alms- house.....	9 64
Elbridge Livingston, for support of Alfred Livingston at Alms- house.....	169 46
John Murdock, for support of Mary Murdock at Almshouse..	12 50
Estate of H. Mulholland. for sup- port of H. Mulholland at Alms- house, and burial expenses....	78 25
Mrs. Charles E. Nickles, for sup- port of Charles E. Nickles at Almshouse.....	195 72

Amounts carried forward..... \$7,784 92 \$5,9584 31

Amounts brought forward..... \$7,784 92 \$59,584 31

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From F. H. Penniman, for support of Hannah Penniman at Alms- house.....	130 36	
James O. Sykes, for support of Ann Sykes at Almshouse.....	108 55	
Clarence A. Upton, for support of Jacob Upton at Almshouse, and burial expenses.....	21 43	
Albert Pindar, for board of horse and sales from farm.....	752 15	
Leonard F. Jewell, for sale of stove, chairs and table, board of Mary Scully at St. John's Hos- pital and State Aid of Patrick Quinn.....	38 11	
Burnham & Moran, for walnut log.	1 00	
James Dugdale, for removal of Robert Dugdale from Danvers to Lowell.....	3 75	
Estate of Mary A. White, for wood and provisions.....	8 00	
	<hr/>	8,848 27
Transferred from Appropriation for School Houses.....		226 92
		<hr/>
		<u>\$68,659 50</u>

EXPENDITURES.

Paid SECRETARY OF THE BOARD
OF OVERSEERS OF THE
POOR:

To Woodbridge W. Tuttle, salary.....	\$83 33	
Leonard F. Jewell, salary.....	916 67	
	<hr/>	\$1,000 00

Paid for SERVICES AT ALMS-
HOUSE:

To Albert Pindar, Superintendent, sal- ary.....	\$1,829 56	
<i>Amounts carried forward</i>	<hr/> \$1,829 56	<hr/> \$1,000 00

<i>Amounts brought forward</i>	\$1,829 56	\$1,000 00
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Paid for SERVICES AT ALMS-
HOUSE:

To F. J. O'Donoghue, Chaplain, and Teacher in Reform School.....	34 52	
William A. Lang, Chaplain, and Teacher in Reform School	967 21	
Michael E. Sexton, Teacher in Re- form School.....	489 72	
Sundry persons, for labor as per pay rolls.....	4,154 23	
	<hr/>	7,475 24

Paid for FUEL AT ALMSHOUSE:

To Appropriation for Roads and Bridges, for teaming wood.....	\$228 00	
Timothy Adams, for wood.....	221 18	
N. Hutchinson, for wood.....	70 94	
Perham & Wilson, for wood.....	226 75	
Nathaniel A. Taylor, for wood.....	51 63	
William E. Livingston, for coal....	2,974 62	
O. C. R. R., for transportation.....	242 09	
	<hr/>	4,015 21

Paid for GRAIN, GROCERIES,
PROVISIONS, ETC., AT ALMS-
HOUSE:

To Coggin, Kidder & Co., for flour and oatmeal.....	\$1,368 00	
J. B. Cover & Co., for oats.....	23 46	
W. P. Foye, for oats, corn and hay.	321 20	
William E. Livingston, for corn, meal, etc.....	120 29	
Joseph Miller, for meal, corn and oats.....	485 27	
J. G. Rogers & Co., for grinding....	50	
E. N. Wood & Co., for oatmeal, corn, oats, etc.....	744 12	
O. D. Wilder, for oats, meal and salt.....	12 29	
Buttrick & Co., for groceries.....	685 13	
Donovan & Co., for groceries, flour, etc.....	3,046 62	
Coffey Bros., for butter.....	8 16	
Fleischmann & Co., for yeast.....	99 00	
	<hr/>	
<i>Amounts carried forward</i>	\$6,914 04	\$12,490 45

Amounts brought forward..... \$6,914 04 \$12,490 45

Paid for GRAIN, GROCERIES,
PROVISIONS, ETC., AT ALMS-
HOUSE:

To Grand Army Fair, for groceries....	68 95
P. Keyes & Son, for groceries.....	34 60
P. Keyes, Jr., for groceries.....	324 13
Nichols & Fletcher, for groceries...	836 15
Charles Nichols, Jr., & Co., for tea and coffee.....	468 46
S. C. Patrick, for snuff.....	66 00
Robert Simpson, for molasses, rice and tobacco.....	737 51
Edward J. Burns, for beef.....	8 60
Ira M. Chase, for beef.....	704 93
Michael Corbett, for beef, poultry and provisions.....	1,226 04
H. Farrell & Co., for poultry and provisions.....	546 40
Farrell Bros., for beef.....	176 91
G. M. Foster, for butter and pro- visions.....	634 62
Haynes, Hanchett & Co., for poul- try.....	17 17
Jewett & Swift, for beef and pork..	1,719 80
Henry F. Keyes & Son, for beef....	580 46
Thomas Roark, for beef.....	11 72
Quincy Market, G. A. R., for pro- visions.....	18 60
A. F. Wright, for provisions.....	56 21
Barney & Co., for fish.....	60 00
E. M. Grant, for fish.....	4 80
M. B. Randlett, for fish.....	90 87
Leonard A. Treat, for fish.....	808 65
H. E. Noyes, for potatoes.....	210 00
G. N. & E. Nichols, for beans and peas.....	307 13
Putnam & Bliss, for beans.....	80 13
E. L. Wiggin, for potatoes.....	30 00
J. Hamilton, for berries.....	11 16
Killpartrick Bros., for strawberries.	7 74
Barney & Co., for candy.....	7 00
W. H. I. Hayes, for pipes and to- bacco.....	139 65
L. K. Howard, for milk.....	359 40

Amounts carried forward..... \$17,267 83 \$12,490 45

Amounts brought forward..... \$17,267 93 \$12,490 45

Paid for GRAIN, GROCERIES,
PROVISIONS, ETC., AT ALMS-
HOUSE:

To Lowell Bone Fertilizer & Co., for fertilizer.....	124 00	
J. L. & J. P. Fowler, for ice.....	31 85	
Daniel Gage, for ice.....	21 10	
	<hr/>	17,444 78

Paid for CLOTHING, DRY GOODS,
ETC., AT ALMSHOUSE:

To B. & L. Clothing Co., for clothing..	\$ 72 75	
William P. Brazer & Co., for hats, caps, gloves and hose	120 20	
Cutter & Walker Manfg. Co., for suspenders.....	12 00	
J. P. Folsom & Co., for dry goods..	530 84	
A. G. Pollard, for dry goods.....	379 36	
A. G. Pollard & Co., for dry goods..	431 26	
Putnam & Son, for clothing.....	208 20	
Post 42, G. A. R., for dry goods....	41 63	
Willard A. Brown, for findings.....	20 18	
D. L. Dimock, for leather and find- ings.....	27 31	
J. Clark Glidden, for boots and shoes.	157 90	
N. M. Wright & Co., for boots and shoes.....	172 06	
Hapgood Wright, for boots and shoes.....	428 00	
	<hr/>	2,601 69

Paid for DRUGS AND MEDICINES
AT ALMSHOUSE:

To F. H. Butler & Co., for medicine...	\$ 11 35	
C. F. Blanchard, for medicine.....	40 76	
Carleton & Hovey, for medicine, soap, etc.	216 85	
Albert Crowell, for drugs.....	2 13	
C. R. Kimball, for medicine.....	64 19	
National Plaster Co., for plaster....	19 75	
H. E. Webster, for phenyle.....	17 50	
	<hr/>	372 53

Amount carried forward \$32,909 45

Amount brought forward \$32,909 45

Paid for SUNDRIES AT ALMS-
HOUSE:

To Appropriation for Schools, for books and supplies furnished Reform School in 1882, 1883 and 1884..	\$ 153 16
Appropriation for roads and bridges, for labor.....	33 45
Appropriation for Water Works, for water.....	1,027 90
Burnham & Moran, for lumber.....	890 42
J. G. Peabody & Sons, for doors, blinds, sash and frames.....	180 33
John C. Bennett, for labor.....	5 50
Bartlett & Dow, for hardware and seeds.....	332 91
Frederick Taylor & Co., for hard- ware.....	1 91
Boutwell Bros., for steel.....	3 45
H. R. Barker, for bolts.....	2 00
T. Costello & Co., for plumbing, heater, range, pipe, solder, labor, etc.....	370 25
Samuel G. Cooper, for stencils, brushes and ink.....	12 16
T. R. Garity & Co., for pipe fittings and labor.....	57 27
Charles T. Haskell, for clock and labor.....	15 51
M. V. B. Libbey, for shoeing horses,	113 95
I. O. Ramsdell, for repairing sleigh,	4 02
Seannell & Wholey, for repairing and inspecting boilers, labor, etc.....	132 60
W. H. Ward, for blacksmithing....	146 97
A. L. Warren, for blacksmithing...	71 77
George F. Allen, for brushes, halters, oil, soap and labor.....	27 60
J. C. Donovan, for harness, sponge and soap.....	40 65
H. F. Ebert, for horse cover and re- pairing harnesses.....	13 95
A. B. Chapman & Co., for painting and repairing carriages.....	333 00
Fay Bros., for sleighs.....	124 00

Amounts carried forward \$4,094 73 \$32,909 45

Amounts brought forward..... \$4,094 73 \$32,909 45

Paid for SUNDRIES AT ALMS-
HOUSE:

To Fay Bros. & Hosford, for oil cover, etc.	3 75	
Amos Green, for cart bodies.....	52 50	
Lowell Rubber Co., for carriage boot and blankets.....	18 00	
J. W. Bennett & Co., for tarred paper, nails, tar, etc.....	18 58	
Frank C. George, for mason work and material.....	167 39	
William E. Livingston, for cement, lime, etc.....	20 53	
Whithed & Co., for cement.....	1 50	
C. B. Coburn & Co., for oil, varnish, alcohol, shellac, brushes, twine, lanterns, etc.....	390 44	
John A. Clark, for brooms and baskets.....	32 25	
W. A. Dickinson, for soap.....	46 87	
French & Puffer, for baskets, paper and bags.....	59 56	
John B. Gates, for garget cure.....	6 00	
P. M. Jefferson & Co., for soap stock,	219 52	
Lowell Harness Dressing Co., for soap	2 00	
J. F. Puffer & Son, for brooms, paper and bags.....	55 24	
W. H. Spalding & Co., for paper, etc.	31 94	
J. C. Tolman, for barrels.....	36 00	
S. E. Tweed Co., for liniment.....	6 00	
Talbot Dyewood & Chemical Co., for ammonia, cream tartar, etc....	70 47	
Lamson & Pinder, for crockery, tin- ware, brooms, pails, thread, combs, brushes, etc.....	496 48	
Rice & Co., for corn popper.....	1 00	
F. P. Coggeshall, for book and pens,	2 00	
J. Merrill & Son, for books, station- ery and tags.....	50 27	
Worcester & Co., for clock dials....	1 90	
Citizen Newspaper Co., for enve- lopes, paper and printing... ..	6 25	
Lowell Daily Courier, for one copy one year.....	6 00	

Amounts carried forward..... \$5,897 17 \$32,909 45

Amounts brought forward \$5,897 17 \$32,909 45

Paid for SUNDRIES AT ALMS-
HOUSE:

To Russell S. Clifford, for spectacles, etc.	5 35	
Alvin Lawrence, for repairing clocks, etc.....	11 50	
Adams & Co., for furniture, carpet, lining, and labor.....	122 00	
Benner Bros., for excelsior.....	6 75	
Offutt & Whitaker, for chairs.....	86 40	
Sherman & Manning, for handle...	75	
Tucker Manufacturing Co., for iron bedsteads.....	138 00	
Lowell Post Office, for rent of box..	6 00	
Lowell Gas Light Co., for gas.....	754 33	
N. E. Telephone and Telegraph Co., for service.....	30 55	
Town of Chelmsford, for taxes of 1886.....	43 00	
D. Crowley, for services appraising property.....	15 00	
J. A. Green, for services appraising property.....	20 00	
William A. Lang, for cash paid for traveling expenses.....	2 40	
Albert Pindar, for cash paid for traveling expenses, postage, pig, labor, etc.....	121 63	
John C. Lannon, for horse.....	225 00	
Noyes & Clapp, for horse.....	325 00	
O. Blodgett, for killing pigs.....	43 00	
Estate of H. A. & S. A. Coburn, for services.....	5 00	
Patrick Doyle for labor.....	21 00	
Dennis Whaley, for labor.....	623 25	
Israel L. Putnam, for making cider,	49 79	
Charles W. Wilder, for curing hams.	2 64	
Robert Wood, for professional ser- vices.....	28 50	
B. & M. R. R., for transportation..	20 54	
B. & L. R. R., for transportation...	3 47	
		\$8,608 02

Paid on ACCOUNT OF FREE DIS-
PENSARY:

To Appropriation for Public Buildings, for labor.....	\$ 60
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<i>Amounts carried forward</i>	\$ 60	\$41,517 47
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Amounts brought forward..... \$ 60 \$41,517 47

Paid on ACCOUNT OF FREE DISPENSARY:

To William T. Loftus, for services as clerk and cash paid for labor, etc	52 70
Thomas C Walker, for services as clerk and cash paid for labor, etc	264 75
Buttrick & Co., for sugar and broom,	1 33
C. B. Coburn & Co., for alcohol, glycerine, etc.....	51 62
Nichols & Fletcher, for sugar.....	19 89
E. N. Wood & Co., for flaxseed meal,	1 50
Oswald & Co., for crinoline.....	50
A. G. Pollard, for crinoline and cloth.....	6 81
A. G. Pollard & Co., for cloth.....	4 03
Ellingwood & Co., for medicine....	128 93
Frank C. Goodale, for medicine....	2 45
C. R. Kimball, for medicine.....	208 69
R. J. Lang, for medicine.....	30 95
P. Lynch, for whiskey, wine and brandy.....	91 00
T. R. Garity & Co., for solder and labor.....	2 55
Morning Mail, for printing.....	15 00

883 30

Paid for SERVICES OF PHYSICIANS OUT OF ALMSHOUSE:

To Nathan Allen.....	\$ 2 00
W. G. Eaton.....	62 50
Leonard Huntress.....	4 00
J. C. Irish.....	5 00
W. A. Johnson.....	49 93
Herbert S. Johnson.....	54 50
T. E. McOwen.....	49 98
Charles H. Ricker.....	92 11
J. F. Sullivan.....	5 00
C. A. Viles.....	45 81

370 83

Paid for COFFINS, INTERMENTS, ETC.:

To Appropriation for Public Buildings, for labor.....	\$215 43
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Amounts carried forward..... \$215 43 \$42,771 60

Amounts brought forward..... \$215 43 \$42,771 60

Paid for COFFINS, INTERMENTS,
ETC.:

To A. P. Bateman, for lumber.....	121 98	
Amasa Pratt & Co., for lumber.....	66 06	
Whitney & Tibbets, for lumber.....	10 90	
William L. Lockhart, for trimmings,	81 04	
Frederick Taylor & Co., for hardware,	5 09	
C. B. Coburn & Co., for shellac,		
asphaltum, etc.....	21 40	
Kimball & Co., for cloth.....	26 64	
A. G. Pollard, for cloth.....	4 25	
J. W. Brooks, for services as under-		
taker	76 00	
Peter Davey, for services as under-		
taker	99 00	
James H. McDermott, for services		
as undertaker.....	57 00	
Frank Martin & Son, for services as		
undertakers.....	124 50	
James F. O'Donnell, for services as		
undertaker	38 00	
U. S. & C. Express, for transporta-		
tion	1 20	
	<hr/>	\$948 49

Paid for FUEL, LABOR, ETC., AT
WOOD YARD:

To Sundry persons, for labor as per pay		
rolls	\$2,460 25	
Appropriation for schools, for coal..	209 00	
Appropriation for Roads and Bridges,		
for labor and keeping horse....	1,677 04	
Appropriation for Public Buildings,		
for labor.....	2 25	
John Biggs, for labor.....	48 00	
J. W. Anderson, for wood.....:	347 50	
Sewall Bowers, for wood.....	83 68	
Buttrick & Sargent, for wood.....	40 00	
Daniel Gage, for wood.....	125 00	
George L. Huntoon, for wood.....	285 25	
R. M. Hill, for wood.....	818 89	
J. L. Noyes & Son, for wood.....	108 00	
Perham & Wilson, for wood.....	2,366 97	
Charles F. Shugrue, for wood.....	24 46	
	<hr/>	
<i>Amounts carried forward</i>	\$8,596 29	\$43,720 09

Amounts brought forward..... \$8,596 29 \$43,720 09

Paid for FUEL, LABOR, ETC., AT
WOOD YARD

To William E. Livingston, for coal....	1,740 53	
Burnham & Moran, for lumber.....	3 59	
W. O. Cummings, for hay.....	30 60	
Joseph Miller for oats.....	23 46	
O. D. Wilder, for oats and meal....	24 83	
W. H. Wiggin, for hay and straw..	15 96	
Bartlett & Dow, for axes.....	2 40	
Frederick Taylor & Co., for measure,	50	
Charles T. Haskell, for filing saws,	90	
A. C. Bond, for harness.....	28 00	
J. C. Donovan, for whip socket, fly		
net and straps.....	5 95	
A. C. Sawyer, for blankets.....	12 20	
H. K. Ferrin, for wagon.....	30 00	
J. A. Walkden, for wagon.....	125 00	
C. B. Coburn & Co., for broom....	50	
J. F. Puffer & Son, for baskets and		
lanterns.....	46 25	
Parker & Cheney, for packing cases,		
baskets and use of wagon.....	11 15	
Lucius M. Wright, for liniment....	1 00	
C. H. Hanson & Co., for use of horse,	8 00	
Charles F. Keyes, for use of horse..	5 50	
B. & L. R. R., for transportation..	25	
	<hr/>	10,712 86

Paid for SUPPORT OF SUNDRY
PERSONS:

To John M. Fisk, for support of per- sons in Middlesex County House of Correction.....	\$220 14	
	<hr/>	220 14
To Essex County, for support of per- sons at House of Correction...	\$5 70	
	<hr/>	5 70

Commonwealth, for support of sun-
dry persons, as follows: In
Danvers Lunatic Hospital —
Mary Collins, Ellen M. Copeland,
Alice M. Sanborn, Catherine
McCabe, Adeline Lattip, Robert
Dugdale, William Cullen, Henry
M. Flanders and Robert Story.

Amount carried forward..... \$54,658 79

Amount brought forward..... \$54,658 79

Paid for SUPPORT OF SUNDRY
PERSONS:

In State Reform School—Arthur C. George, John J. Howard, James Quimby, Cornelius Quinn, John Rangier, Fred T. Russell, John Scanlon and James Vanderpant. In State Industrial School—Mary Barry, Margaret Carney, Mary Callinan, Delia Conway, Minnie Grant, Malvina Houle, Ann Johnson, Mary Mullany, Kate Mullen and Mary Walker. In State Primary School—Bertha Worthen. In Lyman School—John J. Howard, James Quimby, Fred T. Russell and John Scanlon.....		\$1,182 47	1,182 47
To Danvers Lunatic Hospital, for support of Almy J. Flint, Mary Quinlan, Elenora E. Parish, Ellen M. Copeland, Susan R. Adams, Ellen Cashman, Alice M. Sanborn, Mary Collins, Edith P. Bissell, Annie Furlong, Michael Connelly, Charles L. Davenport, John Cuddihy, Thomas Regan, Clement Gendreau, William T. Hatch, William Doyle, Charles Lynch and Jared A. Spaulding.....		\$1,698 92	1,698 92
To Northampton Lunatic Hospital, for support of Elenora E. Parish..		\$22 72	22 72
To Taunton Lunatic Hospital, for support of Rose A. Davis and Richard Brennan.....		\$215 42	215 42
To Worcester Lunatic Hospital, for support of Lusylvia Bartlett, Flora Bethune, Mary A. Caswell, Mary J. Callinan, Ellen Fuzzard,			
<i>Amount carried forward</i>			\$57,778 32

Amount brought forward..... \$57,778 32

Paid for SUPPORT OF SUNDRY
PERSONS:

Sarah F. Kittredge and Allan McKinley	\$574 89	
	<hr/>	574 89

To City Orphan Asylum, (Salem), for support of John and William Gannon	\$144 00	
	<hr/>	144 00

To Carney Hospital, for support of Wil- liam H. Blakeley.....	\$44 28	
	<hr/>	44 28

To St. Peter's Asylum, for support of Lizzie and Nellie Gleason, Annie, Nellie and Sarah Earls, Mary and Lizzie Moran, Mary and Julia Welch, Katie and Nellie Devine, Annie Eagan and Lizzie Gallagher.....	\$828 00	
	<hr/>	828 00

To St. John's Hospital, for support of Laura De Coigne, Catherine Mohan, Nellie York, Mary Murphy, Annie Whalen, Cathe- rine Rock, Bridget Courtain, Margaret Carr, Rose Burns, Catherine McGrath, Mary Con- lan, Julia O'Neil, Anne O'- Brien, Hannah Haggerty, Mary Short, Annie Scanlon, Margaret Mulligan, alias Curran, Mary Houlihan, Bridget Rowan, Mary McCauley, Margaret McManus, Mary Scully, Margaret Carley, Catherine Carter, Catherine Hayes, Elizabeth Combs, Maria Donovan, Mary Quinn, Margaret Brown, Noe Fagnant, John O'- Connor, Timothy Mahoney, Marcus Nolan, Daniel Fitz- patrick, James O'Hara, John Stewart, William Hurley, James Davis, George Osborne and John Sullivan.....	\$2,056 75	
	<hr/>	2,056 75

<i>Amount carried forward</i>		\$61,426 24
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Amount brought forward \$61,426 24

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS:

To City of Boston, for aid to Jacintha Bowles, Joanna Gannon, Mary E. Gates, Mary McNamara and sister, Ann S. Roberts, Susan Johnson, Rose Hardy, Sarah Hall, Hannah D. Drake, Eliza Partington, William H. Kennes-ton, Thomas McNamara, Horace N. Philbrick, Millard F. Packard, Charles M. Skinner, George B. Wood, John Weldon, Ed-mund A. Walleston, Frank Con-lon, James McQuade, Patrick Fleming, Michael Joyce and James Williams.....	\$294 13	
City of Brockton, for aid to Mrs. John H. Brush.....	25 50	
City of Chelsea, for aid to David Banks	8 00	
City of Cambridge, for aid to Mrs. Terrance W. Kelley and child-ren, Hannah Crowley and Archi-bald Waugh.....	6 75	
City of Fitchburg, for aid to Ann Campbell, Mrs. John Shambro, James Robinson and William Flynn	62 10	
City of Fall River, for aid to Ann Shannon and family, Alice Golden and children, Julia F. Savage and children, Maurice Moriarity, John J. Guinan and James Mahoney and family....	87 29	
City of Lynn, for aid to Mrs. Samuel C. Morey, Mrs. Lyman J. Morey, Rose Donovan, Edwin G. Howe and Michael Butler.....	244 30	
City of Lawrence, for aid to Mrs. John Regan, and Henry Fergu-son	57 00	
City of Malden, for aid to Mrs. James Hughes.....	59 00	
<i>Amounts carried forward</i>	\$824 07	\$61,426 24

<i>Amounts brought forward.....</i>	\$824 07	\$61,426 24
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Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS:

To City of Newburyport, for aid to Wil- liam Rich and family and John J. Morrison.....	149 81	
City of Somerville, for aid to Mrs. Michael Sheridan and family..	49 50	
City of Salem, for aid to Mrs. H. L. Caswell, Mrs. Sampson and Lizzie Jollian.....	30 95	
Town of Chicopee, for aid to Louisa House	6 50	
Town of Hudson, for aid to Mrs. John T. Bushey.....	71 93	
Town of Hyde Park, on execution..	45 89	
Town of Hanover, for aid to Owen Gallagher	32 50	
Town of Methuen, for aid to Alonzo W. Doe.....	20 80	
Town of North Andover, for aid to Mary Adams.....	14 99	
Town of Peabody, for aid to child- ren of George Chase.....	184 00	
Town of Palmer, for aid to Richard Hayes and Charles Merriam...	214 98	
Town of Salisbury, for aid to Nicholas Campbell.....	24 98	
Town of Weymouth, for aid to Nathan M. Reed.....	31 00	
	<hr/>	1,701 90

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE:

To Mrs. Sumner Briggs, for cash.....	\$ 36 00	
Catherine Brennan, for board and care of Mrs. Anthony Mc- Donald.....	5 00	
Sabina Cain, for board of William Moran.....	60 00	
Mary J. Clark, for board of Jones children.....	103 43	
Margaret Carney, for cash.....	8 00	
	<hr/>	
<i>Amounts carried forward.....</i>	\$212 43	\$63,128 14

<i>Amounts brought forward</i>	\$212 43	\$63,128 14
Paid for AID RENDERED SUN- DRY PERSONS OUT OF THE ALMSHOUSE:		
To Mrs. John Delude, for board of Delude children.....	144 00	
Margaret Dunnigan, cash.....	21 00	
Eliza A. Desmazes, for board of Arthur Spofford.....	50 30	
James Devine, cash.....	74 00	
Mrs. Willard Dudley, cash.....	108 00	
Catherine Daly, for board and care of Lizzie Logan.....	3 50	
Maria Farrell, for board of Welch and Farrell children.....	215 00	
Mrs. Alma Greggs, for board of Jones children.....	46 86	
Pauline Glidden, for board of Mabel Hoyt.....	49 58	
Francis C. Gill, for moving furni- ture	1 25	
Mrs. William Henderson, cash.....	72 00	
Michael Healey, for services in case of Catherine McIntee.....	7 10	
Margaret Kelley, for board of Brown children.....	60 00	
Nancy Morse, cash.....	72 00	
Elijah Mixer and wife, cash.....	96 00	
Jane McQuade, cash.....	100 58	
Catherine McKenna, for care of Kate McIntee.....	101 61	
F. W. Merriam, for care of Charles Merriam	247 15	
Mary A. Miller, cash.....	8 00	
Horace Osgood, for care of Kate McIntee.....	20 00	
Mary Olwell, cash, board of Martin and William Tucker.....	120 00	
Mrs. Patrick O'Brien, cash.....	27 00	
Jane A. L. Patch, for board of Amelia Lew.....	8 43	
Margaret Powers, for board of Mary G. McNamara.....	59 65	
Ann Quinn, for board of Marietta Quinn and cash.....	75 00	
Catherine Roach, cash.....	30 00	
<i>Amounts carried forward</i>	<u>\$2,030 44</u>	<u>\$63,128 14</u>

Amounts brought forward..... \$2,030 44 \$63,128 14

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE:

To Martha Roy, cash.....	60 00	
Elizabeth Shaw, cash.....	102 15	
Hannah W. M. Teel, for board of Fred M. Burns.....	62 88	
M. A. Whittier, for board of Mabel Richardson and Harry Rice....	67 14	
Ella Witherell, cash.....	48 00	
Mrs. William Wainwright, cash....	15 00	
Andrew C. Wheelock, for rent.....	3 00	
	<hr/>	2,388 61

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE
OVERSEERS OF THE POOR:

To Buttrick & Co., for groceries.....	\$163 50	
Charles Bent, for groceries.....	18 00	
J. E. Burns, for groceries.....	2 00	
Daniel Benson, for groceries.....	4 00	
Barney & Co., for groceries.....	8 00	
John E. Berry, for stove, furniture, etc	27 25	
I. Bourk & Co., for cotton.....	5 00	
Michael Corbett, for provisions.....	2 44	
John F. Callahan, for groceries.....	214 90	
Coffey Bros., for groceries.....	25 00	
S. W. Churchill, for groceries.....	81 00	
C. G. Coburn, for groceries.....	3 00	
Charles H. Deming, for groceries...	2 00	
Donovan Bros., for groceries.....	24 26	
Fuller & Clark, for groceries.....	68 86	
H. Farrell & Son, for groceries....	2 02	
B. F. Hale, for groceries.....	6 00	
George W. Hurd, for groceries....	23 90	
Hoyt Bros., for shoes.....	6 95	
Frank Hoyt, for shoes.....	1 25	
Holland & Rand, for shoes.....	3 75	
F. J. Joyce, for groceries.....	21 00	
P. Keyes & Son, for groceries.....	23 00	
Patrick Keyes. Jr., for groceries....	202 00	
H. F. Keyes & Son, for groceries....	18 00	
William Kittredge, for coal.....	4 90	
	<hr/>	
<i>Amounts carried forward</i>	\$961 98	\$65,516 75

Amounts brought forward..... \$961 98 \$65,516 75

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE
OVERSEERS OF THE POOR:

To Lowell Gas Light Co., for coke.....	34 00
Lyons & Burns, for groceries.....	32 00
G. Leighton, for groceries.....	3 00
L. Lenfest, for supplies.....	1 90
McDonald Bros., for groceries.....	6 00
William McAloon, for groceries....	167 00
Charles W. Mann, for groceries....	9 50
P. F. Mellen, for groceries.....	3 00
Morrison & Hart, for groceries.....	11 83
Catherine McManus, for groceries..	9 44
A. McSorley, for groceries.....	2 00
Thomas Miles, for groceries.....	2 00
John Nolan, for groceries.....	28 50
S. P. Pike, for provisions.....	4 00
J. O'Dwyer, for groceries.....	30 00
Fred H. Parker, for groceries.....	10 00
A. R. Proper, for clothing'.....	6 35
A. G. Pollard & Co., for cloth.....	96
Charles F. Robinson, for groceries..	19 00
Stiles & Co., for groceries.....	106 00
Stickney & Spofford, for groceries..	11 00
C. E. Shorey & Co., for groceries...	35 00
Bridget Slattery, for groceries.....	2 00
R. J. Thomas, for groceries.....	20 00
John C. Tolman, for groceries.....	15 00
Hapgood Wright, for boots.....	1 75
A. Y. Caswell, for R. R. tickets....	22 93
Charles E. Park, for R. R. tickets..	4 10
Benjamin Patch, for R. R. tickets..	18 15
George O. White, for R. R. tickets..	40 80
B. & L. R. R., for tickets and trans- portation.....	13 35
B. & M. R. R. for tickets.....	5 60

1,638 14

Paid for SUNDRIES OUT OF THE
ALMSHOUSE:

To Appropriation for Public Buildings, for frame	\$1 00
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Amounts carried forward..... \$1 00 \$67,154 89

<i>Amounts brought forward</i>	\$ 1 00	\$67,154 89
Paid for SUNDRIES OUT OF THE ALMSHOUSE:		
To Appropriation for Health, for amount received from Commonwealth for care and support of small pox patients in 1885.....	317 00	
L. F. Jewell, for cash paid for traveling expenses, postage and board of Margaret Carney.....	72 85	
W. W. Tuttle, for cash paid for traveling expenses, postage, expressing, etc.....	4 42	
Bacheller, Dumas & Co., for labor..	1 40	
Coughlin & Co., for ink and fasteners	1 50	
H. C. Church & Son, for blank books, etc.....	4 65	
F. P. Coggeshall, Agent, for stationery.....	2 30	
F. P. Coggeshall, for paper.....	2 50	
Citizen Newspaper Co., for blank book, printing and advertising..	79 50	
Campbell & Hanscom, for printing and advertising.....	32 00	
Evening Democrat, for advertising..	2 64	
Lowell Weekly Sun, for advertising,	3 50	
Marden & Rowell, for printing and advertising.....	6 75	
Morning Mail Co., for printing and advertising.....	11 50	
Vox Populi Press, for advertising..	3 50	
James F. Walsh, for services as clerk	795 00	
James C. Abbott, for cash advanced to F. W. Merriam and Alma Greggs.....	38 00	
William H. Parker, for expenses to Palmer and cash advanced for license for Mrs. Joseph Liberty,	32 76	
Carleton & Hovey, for medicine....	60	
C. B. Coburn & Co., for glass.....	33	
Adams & Co., for mattrass, straps and labor.....	8 50	
Samuel Young, for repairing clock..	1 25	
Luther C. Copp, for carriage hire...	3 00	
<i>Amounts carried forward</i>	<u>\$1,426 45</u>	<u>\$67,154 89</u>

Amounts brought forward..... \$1,426 45 \$67,154 89

Paid for SUNDRIES OUT OF THE
ALMSHOUSE:

To Charles F. Keyes, for carriage hire.	3 00	
George Emery, for carriage hire.....	3 00	
E. H. Morse, for carriage hire.....	52 30	
G. W. Norris, for carriage hire	3 50	
John Sleeper, for carriage hire.....	1 50	
T. G. Little, for teaming.....	8 00	
James Leach, for teaming.....	2 50	
William Roberts, for teaming.....	50	
Frank A. Smiley, for teaming.....	1 50	
James F. Sullivan, for teaming.....	1 50	
Commonwealth, on account of State Paupers	86	
	<hr/>	1,504 61

Whole expenditure for the year.....	<hr/> <hr/>	\$68,659 50
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POLICE.

Balance undrawn Jan. 1, 1886.....	\$ 685 04	
Appropriation and assessed in 1886.....	55,000 00	
	<hr/>	\$55,685 04

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF POLICE:

From Appropriation for Sewers, for services of officers.....	\$ 37 50	
Appropriation for Health, for services of officers.....	3 75	
Reserved Fund, for services of officers.....	880 00	
James F. Savage, Clerk of Police Court, for fines, fees of Police officers, etc.....	8,390 89	
Jacob G. Favor, Chief of Police, for services of officers, sales of cloth, horse and badges...	2,407 28	
Fay Bros., for pung.....	25 00	
	<hr/>	11,744 42

TRANSFERS.

From Appropriation for School Houses,	\$294 74	
Reserved Fund.....	900 00	
	<hr/>	1,194 74
		<hr/>
		\$68,624 20
		<hr/>

Amounts brought forward..... \$14,546 72 \$55,591 66

Received into the Treasury on account
of PAUPERS:

From E. B. Quinn, for board of Mary Collins at Danvers Lunatic Hospital	84 04	
John Tobin, for board of John Tobin, Jr. at Almshouse....	8 00	
J. C. Woodward, for support of George F. Woodward at Dan- vers Lunatic Hospital.....	211 71	
R. M. Hills, for wagon.....	19 00	
Lowell One Price Clothing Co., for over draft.....	4 25	
Lowell Hosiery Co., for coal screenings	5 89	
C. F. Varnum, for coal.....	2 69	
	<hr/>	14,882 30
		<hr/>
		\$70,473 96
Transferred from the Appropria- tion for Interest.....		60 56
		<hr/>
		\$70,534 52
		<hr/> <hr/>

EXPENDITURES.

Paid SECRETARY OF THE
BOARD OF OVERSEERS OF
THE POOR:

To Joseph, Smith, salary.....	\$1,083 33	
Charles H. Richardson, salary.....	252 29	
	<hr/>	\$1,335 62

Paid for SERVICES AT ALMS-
HOUSE:

To Albert Pindar, Superintendent, sal- ary.....	\$1,990 79	
Wm: A. Lang, Chaplain and Teacher in Reform School, salary.....	1,196 46	
Michael Sexton, Teacher in Reform School.....	478 38	
Sundry persons, for labor as per pay rolls.....	4,707 24	
	<hr/>	8,372 87
		<hr/>
<i>Amount carried forward</i>		\$9,708 49

Amount brought forward..... \$9,708 49

Paid for FUEL AT ALMSHOUSE:

To Daniel Gage, for wood.....	\$ 694 63	
D. W. Horne & Son, for coal.....	3,008 89	
Wm. E. Livingston for coal.....	14 25	
	<hr/>	3,717 77

**Paid for GRAIN, GROCERIES,
PROVISIONS, ETC., AT
ALMSHOUSE:**

To Wm. P. Foye, for middlings.....	\$10 00	
C. H. Hanson & Co., for hay, oats, etc.....	33 59	
Wm. E. Livingston, for flour, oats, meal, etc.....	397 66	
Wm. Henry Maule, for seeds.....	36 00	
Joseph Miller, for meal, middlings, oats and corn.....	659 02	
T. J. McDonald, for flour and grain	256 25	
Mollahan Bros., for middlings, oats, etc.....	32 43	
Edward N. Wood & Co., for meal, oats, salt, corn and buckwheat.	426 31	
Buttrick & Co., for syrup, sugar, coffee, etc.....	73 95	
G. J. & D. Bradt, for crackers.....	320 98	
C. G. Coburn, for beans, standard food, etc.....	93 38	
Chase & Sanborn, for coffee.....	478 60	
Donovan & Co., for flour, etc.....	2,215 56	
Fleischman & Co., for yeast.....	117 86	
Henry Hatch, for beans, butter and flour	921 40	
Hartwell & Co., for sugar, pearline, nutmegs and tobacco.....	157 36	
Haynes, Hanchett & Co., for beans.	115 92	
Kilpartrick Bros., for candy and fruit	94 85	
P. Keyes, Jr., for sugar, coffee, oranges, tea and salt.....	1,779 66	
Wm. Nichols & Co., for flour, oranges, lemons, coffee and salt	2,016 63	
Simpson & Rowland, for rice and coffee	176 16	
<i>Amounts carried forward</i>	<hr/> \$10,413 57	<hr/> \$13,426 26

Amount brought forward..... \$64,284 10

Paid for SUNDRIES :

To Appropriation for Schools, for coal.	\$ 23 79	
Appropriation for Roads and Bridges, for labor.....	48 38	
Appropriation for Paupers, for wood,	7 12	
Appropriation for Public Buildings, for lumber and labor.....	16 53	
Appropriation for Water Works, for water	79 20	
William G. Bumps, for cash paid for conveying prisoners, etc.....	138 26	
Peter T. Corcoran, for cash paid for conveyance of prisoners.....	208 90	
J. G. Favor, for cash paid for con- veyance of prisoners, postage, etc	9 20	
Frank Goodwin, for cash paid for as- sistance	5 45	
Daniel M. Hayes, for cash paid for traveling expenses, etc.....	85 65	
Charles Howard, for cash paid for conveyance of prisoners and burying dogs.....	3 98	
Charles Laflamme, for cash paid for conveyance of prisoners.....	5 89	
Daniel W. Lane, for cash paid for care of teams.....	6 35	
Frank Wood, for cash paid for post- age, telegrams, blacking, use of wagon, labor, etc.....	193 87	
William E. Livingston, for coal....	382 34	
Burnham & Moran, for lumber.....	9 65	
H. B. Shattuck, for hardware.....	10 52	
H. R. Barker, for labor.....	7 45	
Richard Dobbins, for inspecting boiler	2 00	
T. R. Garity, & Co., for pipe, fittings and labor.....	95 85	
M. V. B. Libbey, for shoeing horses,	61 00	
H. H. Wilder & Co., for speaking tube, whistles, dippers, etc. ...	18 40	
N. J. Wier & Co., for dustpan.....	75	
G. H. Convers, for storage and re- pairing carriage.....	11 25	
M. F. Clark, for painting carriage..	12 00	
<i>Amounts carried forward</i>	\$1,443 78	\$64,284 10

Amounts brought forward..... \$1,443 78 \$64,284 10

Paid for SUNDRIES:

To A. B. Chapman & Co., for painting carriages	22 00
H. F. Ebert, for robes, strap, harness and repairing harnesses.....	83 38
Fay Bros., for sleigh.....	75 00
Henry K. Ferrin, for difference be- tween wagons exchanged.....	90 00
Edwin Sanborn, for repairing car- riages.....	36 34
George H. Taylor, for repairing car- riage.....	2 25
E. J. Noyes, for horse and difference between horses exchanged.....	335 00
Buttrick & Co., for matches, soap, tea, sugar, etc.....	28 33
Brace & Lathrop, for insect powder,	15 00
G. J. & D. Bradt, for crackers.....	85 50
C. B. Coburn & Co., for ammonia, oil, wicks, brooms, brushes, camphor, etc.....	31 87
Daniel Gage, for ice.....	13 40
Hutchins & Co., for watering street,	13 00
P. M. Jefferson & Co., for soap.....	6 00
J. P. Folsom & Co., for towels.....	8 80
W. T. Bradley, for mat, matting and labor	12 42
J. F. Puffer & Son, for oil cloth....	11 50
N. J. Loupret, for photographs.....	24 00
J. J. Cluin, for badges and repairing badges	20 35
O. A. Richardson, for keys and grap- pling irons.....	4 35
Lowell Gas Light Co., for gas.....	287 22
N. E. Telephone and Telegraph Co., for telephone service.....	103 57
Middlesex Company, for cloth.....	355 32
Citizen Newspaper Co., for blank books and advertising.....	30 50
Campbell & Hanscom, for printing and advertising.....	43 42
Daily News, for advertising.....	7 00
Marden & Rowell, for printing and advertising	12 00
Morning Mail Co., for advertising..	8 67

Amounts carried forward..... \$3,209 97 \$64,284 10

Amounts brought forward..... \$3,209 97 \$64,284 10

Paid for SUNDRIES:

To Vox Populi Press, for advertising...	5 25	
H. C. Church & Son, for diaries....	60 78	
Coughlin & Co., for blank books and mucilage.....	2 50	
Lowell Rubber Type Co., for labor..	2 50	
J. Merrill & Son, for blank books and stationery.....	90 31	
R. E. Bell, for professional services,	4 00	
M. G. Parker, for professional ser- vices.....	5 00	
Charles H. Ricker, for professional services	10 00	
Hermou J. Smith, for professional services	20 00	
C. A. Viles, for professional ser- vices.....	25 00	
Jesse A. Viles, for treatment of horses	10 00	
C. F. Foss & Co., for labor and material	50 35	
Shea & McOske, for labor.....	1 75	
A. McDonald, for burying dog.....	50	
Mizael Jodoin, for use of horse....	14 00	
Henry Marshall, for keeping horse..	5 00	
E. H. Morse, for carriage hire.....	6 00	
G. W. Norris, for carriage hire and keeping horses.....	711 11	
George Richardson, for carriage hire and keeping horse.....	106 08	
	<hr/>	4,340 10
Whole expenditure for the year.....		<hr/> <hr/> \$68,624 20

FIRE DEPARTMENT.

Appropriated and assessed in 1886.....	\$65,000 00	
	\$65,000 00	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF FIRE DEPART-
MENT:

From Appropriation for Sewers, for hose	\$ 180 00	
Appropriation for Water Works, for manure and labor.....	50 00	
Reserved Fund, for wire and use of truck.....	7 40	
William H. Meloy, for rent.....	50 00	
Appleton Company, for use of steamer.....	6 00	
P. Allen, for use of steamer.....	15 00	
John Abbott, for lumber, brackets, lightning arresters, wire, in- sulators, etc.....	8 90	
H. R. Barker, for manure.....	257 75	
George A. Chase, for heating ward rooms.....	2 00	
Edward S. Hosmer, Chief Engi- neer, for sale of horses, har- ness, wheels, old copper and cloth.....	843 04	
Talbot Dyewood & Chemical Co., for carboy.....	1 50	
State Almshouse, for poles and labor	17 00	
	\$1,438 59	
<i>Amounts carried forward</i>		\$65,000 00

Amounts brought forward..... \$1,438 59 \$65,000 00

Received into the TREASURY ON
ACCOUNT OF FIRE DEPART-
MENT:

From A. C. Wheelock, for land and buildings on Central street...	3,500 00	
	<hr/>	4,938 59
		<hr/>
		\$69,938 59
		<hr/>

EXPENDITURES.

Paid CHIEF ENGINEER AND
ASSISTANT ENGINEERS:

To Edward S. Hosmer, Chief Engineer,	\$1,400 00	
James F. Norton, First Assistant Engineer and Clerk.....	225 00	
C. W. Marriott, Assistant Engineer.	175 00	
O. J. Gilbert, Assistant Engineer...	175 00	
J. H. Stackpole, Assistant Engineer,	21 87	
G. F. Salmon, Assistant Engineer..	153 13	
	<hr/>	\$ 2,150 00

Paid for SERVICES OF FIREMEN:

To Members of the several companies, for services for the year ending Nov. 1, 1886.....	\$12,313 73	
	<hr/>	12,313 73

Paid for SERVICES OF PERMA-
NENT FIREMEN:

To George B. Whitney, Electrician....	\$1,016 40	
George Lovett.....	834 75	
T. Crowley.....	693 00	
A. C. Stearns.....	834 75	
H. Boynton.....	834 75	
M. J. Burns.....	834 75	
C. S. Hibbert.....	830 25	
F. Hoyt.....	834 75	
J. Cowell.....	834 75	
William King.....	834 75	
W. H. Halstead.....	834 75	
	<hr/>	
<i>Amounts carried forward</i>	\$9,217 65	\$14,463 73

FIRE DEPARTMENT.

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Amounts brought forward..... \$9,217 65 \$14,463 73

Paid for SERVICES OF PERMANENT FIREMEN:

To A. E. Kidder.....	834 75	
C. F. Hemenway.....	834 75	
E. O'Connell.....	834 75	
C. Riley.....	834 75	
D. J. Hurley.....	834 75	
B. C. Reed.....	834 75	
W. L. Peabody.....	834 75	
F. E. Fuller.....	834 75	
H. J. Foster.....	834 75	
G. W. Alcott.....	834 75	
J. L. Flagg.....	834 75	
J. J. Harrington.....	834 75	
J. Starr.....	834 75	
J. Halstead.....	834 75	
E. J. Little.....	834 75	
S. E. Bartlett.....	834 75	
J. A. Pierce.....	834 75	
W. J. Flynn.....	834 75	
H. C. Fernald.....	722 25	
George Teel.....	30 65	
Sundry persons, for services as special firemen.....	57 29	
	<hr/>	25,053 34

Paid for FUEL:

To Appropriation for Paupers, for wood,	\$ 17 00	
Appropriation for Roads and Bridges, for labor.....	51 76	
William Kittredge, for cannel coal..	154 14	
William E. Livingston, for coal.....	588 47	
Stanley & Co., for coal.....	14 50	
	<hr/>	825 87

Paid for HAY, GRAIN, ETC.:

To Ame & Co., for standard food.....	\$ 108 00	
Coggin, Kidder & Co., for hay.....	1,111 10	
J. B. Cover & Co., for hay, straw, oats, corn and shorts....	908 46	
W. P. Foye, for hay, straw and oats,	146 14	
Knapp Bros., for carrots.....	68 95	
William E. Livingston, for oats, corn, etc.....	383 85	

Amounts carried forward..... \$2,726 50 \$40,342 94

Amounts brought forward \$2,726 50 \$40,342 94

Paid for HAY, GRAIN, ETC.:

To E. O'Heir, for hay.....	304 72	
A. G. Stiles & Co., for oats.....	80 40	
J. J. Webster, for hay.....	16 43	
E. N. Wood & Co., for straw, oats and salt.....	49 52	
	<hr/>	3,177 57

Paid for HORSES, HARNESSSES,
CARRIAGES, ETC.:

To Charles Clapp, for horses.....	\$ 500 00	
Noyes & Clapp, for horses and difference between horses ex- changed.....	1,000 00	
E. J. Noyes, for horses.....	410 00	
William Sawyer, for difference be- tween horses exchanged.....	250 00	
S. L. Butman, for repairing har- nesses.....	13 65	
T. M. Bolton & Co., for repairing harnesses.....	13 90	
A. H. Cluer, for repairing harnesses, etc.....	6 10	
Dyer & Patterson, for harness and repairing harnesses.....	76 75	
H. F. Ebert, for blankets, whips, re- pairing harnesses, etc.....	207 49	
Fay Bros. & Hosford, for blankets..	25 50	
Howe Combination Curry Comb Co., for curry combs.....	3 50	
Thomas F. Handley, for repairing pads, etc.....	2 85	
Andrew J. Morse & Son, for snaps..	4 00	
William Spear, for sweat scrapers..	4 00	
George H. Convers, for repairing carriages.....	662 62	
Fay Bros., for repairing carriages...	144 05	
H. K. Ferrin, for carriage top.....	15 00	
J. H. Swett, for repairing carriages.	192 32	
Sawyer Carriage Co., for repairing carriage.....	26 10	
	<hr/>	3,557 83

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for labor.....	\$377 46	
<i>Amounts carried forward</i>	\$377 46	\$47,078 34

Amounts brought forward..... \$2,726 50 \$47,078 34

Paid for SUNDRIES:

To Appropriation for Public Buildings, for labor and material.....	310 31
Appropriation for Water Works, for pipe, fittings and labor.....	30 30
Appropriation for Water Works, for water	289 25
A. P. Bateman, for lumber.....	29 18
Badger & Holmes, for lumber and labor	13 90
A. L. Brooks & Co., for lumber.....	46 19
Burnham & Moran, for lumber.....	60 31
A. Keddie, for labor on lumber.....	1 55
Middlesex Electric Light Co., for poles	90 00
Amasa Pratt & Co., for lumber, doors, etc	593 43
Whitney & Tibbetts, for lumber....	54 37
Charles E. Adams, for hardware....	52 27
Bartlett & Dow, for hardware	20 13
H. B. Shattuck, for hardware.....	14 03
Frederick Taylor & Co., for hard- ware, etc	237 76
Boutwell Bros., for iron and steel...	6 93
O. E. Averill, for blacksmithing....	56 16
J. J. Adams, for filing saws.....	3 91
E. P. Bryant, for blacksmithing....	75
H. R. Barker, for pipe, fittings, labor, etc	476 98
Cole & Nichols, for castings.....	66
Chelmsford Foundry Co., for iron stairs	200 00
T. Costello & Co., for pipe, fittings, plumbing, etc	47 39
Richard Dobbins, for iron and labor,	2 26
L. A. Derby & Co., for wire, tacks, gears, labor, etc	62 98
Eagle Plating Co., for plating and polishing.....	1 50
T. R. Garity & Co., for pipe, fittings, bolts, pattern, labor, etc	122 04
Charles T. Haskell, for filing saws..	1 02
Andrew S. Jackson, for globes and snaps	13 00
M. V. B. Libbey, for shoeing horses,	4 25

Amounts carried forward..... \$3,220 27 \$47,078 34

<i>Amounts brought forward.....</i>	\$3,220 27	\$47,078 34
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Paid for SUNDRIES :

To S. G. Mack & Co., for copper, zinc and labor.....	9 64
W. A. Mack & Co., for copper dish and copper.....	2 83
Manchester Locomotive Works, for blocks.....	28 00
A. Parsons, for blacksmithing.....	51 35
Pevey Bros., for castings.....	28 85
Abiel Pevey, for zincs.....	262 40
Edwin Rogers, for signal boxes, gong, wire, etc.....	1,769 53
D. A. Woodhouse Manufacturing Co., for coupling reformer.....	75 00
J. W. Stewart & Co., for galvanized iron, tunnels, can, labor, etc....	43 91
A. L. Smith, for composition.....	5 88
H. W. Tibbetts, for shoeing horses, etc.....	47 06
Union Iron Foundry Co., for cast- ings.....	1 15
H. H. Wilder & Co., for can, water pot, pail, labor, etc.....	30 28
Samuel Young, for wire bells, etc...	21 90
C. Zimmer, for keys and repairing locks.....	1 20
J. C. Ayer Co., for dry hides.....	1 76
James M. Boynton, for liniment....	11 00
A. & E. Burton & Co., for dusters..	30 00
Charles O. Bean, for polish.....	18 30
Carleton & Hovey, for medicine for horses.....	14 50
C. B. Coburn & Co., for candles, oil, soap, lanterns, reflectors, brushes, etc.....	449 07
H. C. Church & Son, for paper, etc.	3 80
Fiske & Spalding, for lead, labor, etc.....	15 01
French & Puffer, for brooms, baskets and chimneys.....	15 69
J. W. Flemings, for wool waste....	2 50
Josiah Gates & Sons, for leather, hose, couplings, labor, etc.....	80 80
J. R. Hayes, for medicine.....	5 95
S. F. Hayward & Co., for extinguish- ers, bottles and corks.....	87 00

<i>Amounts carried forward.....</i>	\$6,334 63	\$47,078 34
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<i>Amounts brought forward</i>	\$6,334 63	\$47,078 34
Paid for SUNDRIES:		
To Jonathan Kendall & Co., for paint..	10 24	
C. R. Kimball, for powders.....	3 15	
G. Lawrence, for medicine for horses,	39 00	
Lowell Harness Dressing Co., for		
soap.....	12 00	
Lowell Rubber Co., for gaskets.....	80	
Angus Mackenzie, for kerosene and		
can	65	
Henry Martyn, for harness dressing,	16 40	
Matchless Metal Polish Co., for		
polish.....	16 20	
Mrs. M. Meaney, for canvas aprons.	3 25	
William McDougall, for ointment		
and liniment.....	14 75	
George Palmer, for oil.....	3 00	
John A. Roark, for soap.....	18 00	
Robert Simpson, for matches.....	5 00	
W. H. Spalding & Co., for shades,		
fixtures and glass.....	21 18	
Talbot Dyewood & Chemical Co., for		
chemicals	219 56	
S. E. Tweed, for liniment.....	6 00	
Vital Lotion Co., for lotion.....	4 00	
Lucius M. Wright, for hoof liquid..	10 00	
Mrs. George H. Crafts, for re-seat-		
ing chairs.....	8 00	
E. Hapgood & Son, for mattresses		
and cushion.....	30 68	
J. F. Puffer & Son, for furniture,		
bedding, clocks, brooms, pails,		
etc	289 72	
A. G. Pollard, for cotton cloth, crash		
and flannel.....	23 04	
A. G. Pollard & Co., for quilt and		
blankets	27 58	
Middlesex Co., for cloth	270 51	
Lowell Gas Light Co., for gas.....	468 01	
N. E. Telephone & Telegraph Co.,		
for service	345 00	
C. G. Coburn, for oil, globes,		
chimneys and rent of building..	241 36	
A. C. Wheelock, for rent of building		
on Central street.....	60 00	
A. C. Wheelock, for land on Central		
street	3,500 00	
<i>Amounts carried forward</i>	\$12,001 71	\$47,078 34

Amounts brought forward..... \$12,001 71 \$47,078 34

Paid for SUNDRIES:

To Lowell Cornet Band, for services...	60 00
Scripture's Laundry, for laundering.	187 10
Samuel G. Cooper, for stencil.....	1 60
G. W. Dudley, for clocks.....	4 95
Durant & Rogers, for badges, but- tons, etc.....	101 60
Alvin Lawrence, for clock and re- pairing clocks.....	11 00
Harry Raynes, for repairing badges.	25
Charles Spencer, for signs.....	2 75
George Thatcher, for repairing clock.....	1 00
Bachelor, Dumas & Co., for bind- ing.....	50
Citizen Newspaper Co., for printing,	6 50
Vox Populi Press, for printing.....	80 00
H. C. Church & Son., for stationery, waste, mouldings, etc.....	32 44
Littlefield & Pease, for paper boxes,	2 00
J. Merrill & Son, for street direc- tories.....	2 66
Coburn & Crosby, for mason work and material.....	108 60
Corcoran, & Conlan for mason work and material.....	13 50
Burch, Fenton & Co., for mason work and material.....	33 00
J. L. Moulton, for mason work and material.....	25 00
D. M. Prescott, for mason work and material.....	46 93
E. A. & A. T. Smith, for repairing concrete.....	9 82
E. S. Hosmer, for cash paid for ex- penses of committee, medicine, labor, etc.....	40 00
Edward E. Hill, for labor.....	1 50
Robert Wood, for professional ser- vices.....	139 00
Warren C. Hamblett, for pasturing horses.....	21 00
George A. Murphy, for pasturing horses.....	5 50
J. H. Redman, for keeping horse...	12 00

Amounts carried forward..... \$12,952 91 \$47,078 34

Amounts brought forward..... \$12,952 91 \$47,078 34

Paid for SUNDRIES :

J. L. Noyes & Son, for use of horse,	26 00	
Charles F. Keyes, for carriage hire.	10 00	
Lovejoy-Paul Express, for transportation.....	3 40	
Rand Express Co., for transportation	35	
U. S. and C. Express, for transportation	1 70	
B. & L. R. R., for transportation...	2 38	
	<hr/>	\$12,996 74

Paid ON ACCOUNT OF ENGINE
HOUSE ON CENTRAL
STREET :

To Appropriation for Sewers, for labor.	\$ 186 38	
Appropriation for Public Buildings, for labor.....	11 37	
Ladd & Conant, on account of contract.....	4,110 81	
Fred C. Miller, for plans.....	266 74	
Edward Cawley, for pipe.....	24 91	
Nichols & Fletcher, for dualin and exploders.....	12 94	
Citizen Newspaper Co., for advertising.....	3 75	
Campbell & Hanscom, for advertising.....	3 75	
Daily News Co., for advertising....	3 75	
Marden & Rowell, for advertising..	3 75	
Morning Mail Co., for advertising..	3 75	
O. A. Simpson, for labor.....	6 00	
	<hr/>	4,637 90

Whole expenditure for the year.....	\$64,712 98
Transferred to Appropriation for Schools,	3,000 00
Balance undrawn, Jan. 1, 1887.....	2,225 61
	<hr/>
	\$69,938 59

SEWERS AND DRAINS.

Balance undrawn Jan. 1, 1886.....	\$ 6,696 93	
Appropriated and assessed in 1886.....	40,000 00	
	<hr/>	\$46,696 93

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF SEWERS AND
DRAINS :

From Appropriation for Roads and Bridges, for brick.....	\$ 58 50	
Appropriation for Fire Depart- ment, for labor.....	186 38	
Appropriation for Commons, for steel.....	9 60	
Reserved Fund, for services of City Engineer.....	65 76	
C. F. Foss & Co., for blue stone, brick, cement, dualin and ex- ploders.....	252 84	
Jesse Moulton, for repairing engine and use of engine and derrick.....	169 30	
William C. McClannan, for use of engine.....	211 34	
Sundry persons, for remote drain- age as follows :		
Henry C. Brothers, Royal street .	30 00	
C. B. Coburn & Co., Intercepting sewer	25 00	
Michael Doyle, Lindsey street....	15 00	
Stephen Davis, East Pine street..	20 00	
<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$1,043 72	\$46,696 93

Amounts brought forward \$1,043 72 \$46,696 93

Received into the TREASURY ON
ACCOUNT OF SEWERS AND
DRAINS:

From Estate of Dennison Dudley, Central street.....	20 00	
J. W. Ellis, Mammoth road.....	30 00	
Free Baptist Church, Paige street,	20 00	
George F. Goode, Bowers street..	250 00	
Orrin Hutchinson, Chelmsford street	120 00	
L. W. Parker, Lawrence street...	25 00	
George W. Roberts, Leverett street	20 00	
L. E. Shepard, agent, River street,	15 00	
L. E. Shepard, agent, Lincoln street	15 00	
John M. Sprague, Fletcher street,	15 00	
Mrs. Joseph White, Hale street..	20 00	
William H. Wiggin, Rock street..	60 00	
Stephen H. Jones, East Pine street	20 00	
		<hr/> 1,673 72

Received for SEWER ASSESS-
MENTS:

From Solomon H. Ladd, Gold street...	\$ 24 79	
Ebenezer A. Smith, Belmont and Pine street.....	30 73	
Patrick O'Hare, Davis street.....	15 09	
William H. Shedd, Fourth avenue,	37 50	
Caroline A. Foss, Stevens street..	61 50	
Shaw Stocking Co., Chelmsford street	46 87	
Shaw Stocking Co., Chelmsford street	168 75	
Daniel P. Galloupe, Twelfth street	174 07	
Appropriation for Roads and Bridges, Chelmsford street...	195 00	
Versil E. Robey, Stevens street..	246 37	
George H. and Charles A. Gilman, Belmont and Pine streets....	29 50	
Abby Billings, Belmont and Pine streets	30 48	
		<hr/>
<i>Amounts carried forward</i>	\$1,080 65	\$48,370 65

<i>Amounts brought forward</i>	\$1,080 65	\$48,370 65
Received for SEWER ASSESS- MENTS:		
From Emily J. Clifford, Talbot street..	54 44	
Oren Hutchinson, Chelmsford street	40 87	
Children of Josiah Gates, Chelms- ford street.....	65 77	
Rosanna Farrell, Davis street....	17 97	
George H. Wellman, West Fourth street	29 64	
Alfred O. Atkinson, Fourth avenue	37 50	
William Waugh, Broadway.....	111 19	
Laura S. Tay, Twelfth street....	6 93	
Danvill Cole, Mount Vernon street	27 42	
Mary I. Dow, Twelfth street	29 62	
Robert G. Bartlett and John Ames, Lilley avenue.....	45 05	
Robert G. Bartlett and John Ames, Lilley avenue.....	57 27	
Robert G. Bartlett and John Ames, Lilley avenue.....	42 90	
George B. Farnham, South Nichols street	28 08	
George B. Farnham, South Nichols street	26 24	
George B. Farnham South Nichols street	27 77	
James G. Marshall, Stevens street,	50 99	
C. H. Sherman and A. V. Part- ridge, Stevens street.....	152 56	
C. W. W. Richardson, Stevens street	94 67	
C. W. W. Richardson, Stevens street	84 99	
J. C. Call, Stevens street.....	84 99	
Edward F. Coburn, Stevens street,	186 89	
Daniel D. Caverly, Stevens street,	44 19	
Mrs. William Dobbins, Edson street	24 38	
Heirs of Thomas Nesmith, Gold street	19 78	
James A. Hadley and W. T. Ken- neston, Aiken street and Lilley avenue.....	23 49	
<i>Amounts carried forward</i>	<hr/> \$2,476 24	<hr/> \$48,370 65

<i>Amounts brought forward</i>	\$2,476 24	\$48,370 65
Received for SEWER ASSESS- MENTS:		
From James A. Hadley and W. T. Ken- neston, Aiken street and Lilley avenue.....	26 91	
James A. Hadley and W. T. Ken- neston, Aiken street and Lilley avenue.....	22 85	
Edward E. McLearn, Aiken street and Lilley avenue.....	30 03	
Thomas Nesmith, Aiken street and Lilley avenue.....	44 62	
Mrs. Thomas Harrington, Davis street.....	15 09	
Mrs. Thomas Harrington, Davis street.....	15 09	
Cornelius Maguire, Davis street..	12 24	
John F. Kimball, Fourth avenue.	37 50	
Lewis T. Worthley, Royal street.	47 98	
Dennis Cleary, Merrill street.....	22 63	
Emma Faunce, Royal street.....	64 40	
Edwin A. Bigelow, Royal street..	98 90	
John G. Stedman, Edson street...	30 16	
John G. Stedman, Edson street...	30 14	
Sarah E. Walker, Twelfth street..	35 70	
Phineas Whiting, Mount Vernon street.....	23 11	
Cyrus W. Russell, Mount Vernon street.....	43 02	
Charles T. Holland, Boylston and Concord streets.....	22 50	
Mrs. Sidney Spaulding, Middlesex street.....	61 51	
George A. Roper, Middlesex street,	42 94	
John and Ellen Doyle, Pleasant street.....	18 65	
Charles P. Spaulding, Middleséx street.....	55 36	
Charles S. Lilley, Rogers street..	43 71	
Simon Kelley, Fourth avenue....	37 50	
Eliza A. Clarke, Fourth avenue...	37 50	
Jesse N. Bassett, Twelfth street..	67 28	
William E. Livingston, Twelfth street.....	30 34	
George F. Goode, Twelfth street.	63 52	
<i>Amounts carried forward</i>	\$3,557 42	\$48,370 65

Amounts brought forward..... \$3,557 42 \$48,370 65

Received for SEWER ASSESS-
MENTS :

From George F. Goode, Twelfth street..	26 05	
Frank C. Nichols, Broadway.....	64 62	
Bernard Riley, Fulton street.....	139 53	
B. G. Chatfield, Stevens street...	67 99	
James and Bridget Riley, Boyl- ston and Concord streets....	22 50	
Dyer Hall, Royal street.....	97 29	
Elizabeth Huntress, Royal street.	188 92	
Patten & Co., West Fourth street,	20 35	
	<hr/>	4,184 67
		<hr/>
		\$52,555 32
		<hr/>

EXPENDITURES.

Paid for LABOR AS PER PAY-
ROLL :

In January.....	\$3,982 62	
February.....	1,734 42	
March.....	696 81	
April.....	1,700 23	
May.....	4,285 09	
June.....	2,665 39	
July.....	3,815 41	
August.....	3,491 72	
September.....	3,099 62	
October.....	3,215 89	
November.....	2,640 39	
December.....	2,850 82	
	<hr/>	\$34,178 41

Paid for PIPE, BRICK, CEMENT,
LUMBER, HARDWARE, ETC.:

To Edward Cawley, for drain pipe.....	\$1,685 49	
Charles A. Kendall, for drain pipe and labor.....	26 80	
Staples Bros., for drain pipe.....	1,305 19	
Bennett & White for brick.....	213 10	
Corcoran & Conlon, for brick.....	112 48	
C. F. Boss & Co., for brick.....	485 45	
	<hr/>	
<i>Amounts carried forward</i>	\$3,828 51	\$34,178 41

Amounts brought forward..... \$3,882 51 \$34,178 41

Paid for PIPE, BRICK, CEMENT,
LUMBER, HARDWARE, ETC.:

To William E. Livingston, for brick and cement.....	1,387 06	
Isaac H. Pollard, for brick.....	118 35	
Charles Spalding, for brick and lumber.....	1,912 64	
Whitehead & Co., for brick.....	285 74	
Sweatt & Davis for stone.....	16 20	
Badger & Holmes, for mauls, handles and labor.....	2 50	
Burnham & Moran, for lumber.....	32 82	
A. B. Bateman, for lumber.....	278 22	
A. L. Brooks & Co., for lumber.....	96 68	
Davis & Sargent, for lumber.....	60 05	
Amasa Pratt & Co., for lumber.....	55 49	
Whitney & Tibbetts, for lumber....	43 80	
Boutwell Bros., for steel.....	36 64	
Charles E. Adams, for hardware and tools.....	33 29	
John C. Bennett, for hardware and tools.....	49 21	
Bartlett & Dow, for hardware and tools.....	26 18	
H. B. Shattuck, for hardware and tools.....	10 50	
Frederick Taylor & Co., for hardware and tools.....	28 90	
	<hr/>	8,303 08

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for services of Supt. Streets, and City Engineer, keeping horse, labor, etc.....	\$2,228 65	
Appropriation for Police, for services of officers.....	37 50	
Appropriation for Fire Department, for hose.....	180 00	
Appropriation for Intercepting Sewer, for engine, tools, etc....	917 39	
Appropriation for Water Works, for labor.....	6 00	
Appropriation for Water Works, for water	604 25	
<i>Amounts carried forward</i>	<hr/> \$3,973 79	<hr/> \$42,481 49

Amounts brought forward..... \$3,973 79 \$42,481 49

Paid for SUNDRIES:

To Reserved Fund, for labor.....	3 50
Cole & Nichols, for castings.....	488 01
William H. Carberry, for traps.....	12 00
L. A. Derby & Co., for wire.....	1 75
Farrell & Conaton, for pipe, solder and labor.....	3 99
W. A. Mack & Co., for galvanized iron, castings and labor.....	3 80
Nason B. Parsons, for filing saws...	11 03
Pevey Bros., for castings.....	35 13
H. H. Wilder & Co., for jets and labor.....	24 25
J. P. Folsom & Co., for cloth.....	9 49
Allan Bailey, for rubber boots.....	3 90
Dowd & Brady, for rubber boots...	3 50
Ferrin & Parker, for rubber boots...	7 00
J. B. Goodwin, for rubber boots....	4 25
Swan & Smith, for rubber boots....	14 50
N. M. Wright & Co., for rubber boots.....	10 50
Hapgood Wright, for rubber boots..	7 95
M. C. Huntoon, for rubber boots....	2 75
Holland & Rand, for rubber boots..	13 15
C. A. Mitchell & Co., for rubber boots.....	2 75
Willard A. Brown, for hose.....	121 60
C. B. Coburn & Co., for oil, rope, twine, etc.....	38 37
Coggin, Kidder & Co., for oatmeal..	34 55
L. C. Dodge, for bagging.....	1 20
Edson Manufacturing Co., for diaphragms, hose, and coupl- ings.....	109 49
French & Puffer, for lanterns and keg.....	26 58
Josiah Gates & Sons, for couplings and labor.....	76 25
A. L. Kittredge, for glass.....	1 20
T. D. Hadley, for plate glass.....	9 00
Nichols and Fletcher, for powder, dualin, fuse, exploders, pails, etc.....	238 53
J. F. Puffer & Son, for brooms, lanterns, globes and burners...	34 91

Amounts carried forward..... \$5,328 67 \$42,481 49

Amounts brought forward..... \$5,328 67 \$42,481 49

Paid for SUNDRIES:

To George H. Sampson, for forcite and exploders.....	96 50	
H. C. Church & Son, for blank books and pencils.....	4 35	
J. Merrill & Son, for ink and blot- ters.....	1 90	
A. Whitney, for rubber bands, station- ery, etc.....	4 90	
Campbell & Hanscom, for printing.	4 00	
Morning Mail Co., for printing.....	4 30	
George E. Evans, for cash paid for postage, expressing, etc.....	4 56	
John F. Phillips, for cash paid for expenses of committee.....	17 55	
Lowell Gas Light Co., for gas and labor.....	11 02	
Mrs. G. A. Mathews, for damage to house and furniture, at corner of Stevens and Westford streets,	50 00	
C. F. Foss & Co., for labor.....	215 01	
E. A. & A. T. Smith, for repairing catch basins.....	29 25	
J. T. Adams, for labor.....	6 50	
Frederick Frye, for labor.....	89 25	
Charles F. Keyes, for horse.....	230 00	
George B. Whitney, for horse and use of horse.....	228 00	
E. H. Morse, for carriage hire.....	6 00	
George Richardson, for carriage hire,	3 00	
B. G. Brown, for teaming.....	2 00	
B. & M. R. R., for transportation...	58 65	
B. & L. R. R., for transportation..	724 50	
	<hr/>	7,119 91
Whole expenditure for the year.....		\$49,601 40
Balance undrawn Jan. 1, 1887.....		2,953 92
		<hr/>
		\$52,555 32

INTERCEPTING SEWER.

Balance undrawn Jan. 1, 1886.....	\$306 36	
	<hr/>	\$306 36

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF INTERCEPT-
ING SEWER:

From Appropriation for Sewers, for engine and tools.....	\$917 39	
William Andrews & Co., on ac- count of engine.....	50 00	
	<hr/>	967 39
		<hr/>
		\$1,273 75
		<hr/>

EXPENDITURES.

Paid for SEWERS:

To William W. Dwyer, Attorney for Moses P. Sias, for use of engine, etc	\$ 71 30
George W. Norris, for damage to his estate, corner of Lawrence and Watson streets.....	150 00
Anthony Walsh, for damage to his estate, corner of Lawrence and Watson streets.....	150 00
	<hr/>
<i>Amount carried forward</i>	\$371 30

Amount brought forward \$371 30

Paid for SEWERS:

To	Johannah Walsh, for damage to her estate, corner of Lawrence and Watson streets	50 00
	Charles Runels, on execution	852 45

Whole expenditure for the year \$1,273 75

COMMONS.

Balance undrawn, Jan. 1, 1886.....	\$ 184 12	
Appropriated and assessed in 1886.....	5,000 00	
	<hr/>	\$5,184 12

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF COMMONS:

From Samuel M. Chase, City Clerk, for rent of ground.....	\$482 00	
Thomas Finnick, for overdraft...	5 62	
James Mahan, for overdraft.....	4 50	
Frank Conroy, for labor.....	1 75	
Frank Fay, for labor.....	10 50	
Timothy McOwen, for labor.....	11 81	
John O'Hearn, for labor.....	24 49	
	<hr/>	540 67

TRANSFERS.

From Appropriation for School Houses.	\$ 52 65	
Reserved Fund.....	3,000 00	
	<hr/>	3,052 65
		<hr/>
		\$8,777 44
		<hr/>

EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons, for labor as per pay- rolls.....	\$6,982 70
Amount carried forward.....	\$6,982 70

Amount brought forward..... \$6,982 70

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for labor.....	219 45
Appropriation for Sewers and Drains, for steel.....	9 60
Appropriation for Water Works, for drills.....	4 72
Reserved Fund, for services of City Engineer.....	15 00
William E. Livingston, for coal....	23 75
Edward Cawley, for coal.....	34 91
Burnham & Moran, for lumber.....	14 69
Davis & Sargent, for lumber.....	5 50
Charles E. Adams, for globes.....	15 34
Bartlett & Dow, for hardware and tools.....	55 61
Frederick Taylor & Co., for hardware and tools.....	4 91
Boutwell Bros., for tools and iron..	7 15
H. R. Barker, for pipe, fittings, hose and labor.....	89 79
Frank Calvert, for repairing lawn mowers, etc.....	19 25
Cole & Nichols, for weight.....	2 85
T. R. Garity & Co., for sprinkler and labor.....	162 59
W. A. Mack & Co., for pipe, etc....	5 20
H. H. Wilder & Co., for can and tunnel.....	1 00
Durant & Rogers, for badges.....	6 00
Coughlin & Co., for blank books....	1 00
C. B. Coburn & Co., for oil, packing, etc.....	36 22
Middlesex Co., for casks.....	2 50
Nichols & Fletcher, for exploders, powder, etc.....	222 77
George H. Sampson, for forcite and exploders.....	45 00
P. J. Smith, for rope.....	16 40
George L. Fowler, for moving band stand.....	25 00
Thomas Finnick, for labor.....	216 95
W. Robinson, for labor.....	3 00
Frank Fay, for labor.....	36 00
John M. F. Gormley, for teaming...	2 50

Amount carried forward..... \$8,287 35

Amount brought forward \$8,287 35

Paid for SUNDRIES :

To C. H. Hanson & Co., for teaming...	12 00
Peter Latour, for teaming.....	54 00
John Labarge, for teaming.....	106 00
Thomas Mahan, for teaming.....	204 74
John O'Hearn, for teaming, use of derrick, etc.....	81 35
George Tompkins, for teaming.....	1 00
T. M. Bolton & Co., for repairing wagon and harnesses.....	31 00

Whole expenditure for the year.....

8,777 44

PRINTING AND ADVERTISING.

Balance undrawn, Jan. 1, 1886.....	\$ 291 81	
Appropriated and assessed in 1886.....	3,500 00	
	<hr/>	\$3,791 81

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF PRINTING AND
ADVERTISING :

From Vox Populi Press, for overdraft..	\$13 75	
	<hr/>	\$13 75
		<hr/>
		\$3,805 56
		<hr/> <hr/>

EXPENDITURES.

Paid for SUNDRIES :

To Bacheller, Dumas & Co., for paper, ruling and printing.....	\$ 47 85
Frederick H. Keep & Co., for paper.	212 01
Citizen Newspaper Co., for postals, printing and advertising.....	187 75
Campbell & Hanscom, for printing and advertising.....	225 92
Daily News Co., for printing and ad- vertising.....	76 75
Evening Democrat, for advertising..	2 50
Franklin Printing Office, for print- ing.....	59 75
Harrington Bros., for printing.....	159 40
	<hr/>
<i>Amount carried forward.....</i>	\$971 93

<i>Amount brought forward</i>	\$971 93
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Paid for SUNDRIES:

To F. E. Johnson, for printing.....	2 25
Oliver A. Libby, for printing.....	1,285 70
Lowell Weekly Sun, for advertising,	49 00
Marden & Rowell, for printing and advertising	134 44
Morning Mail Co., for printing and advertising	123 55
Vox Populi Press, for printing and advertising	154 35
A. V. Partridge, for posting.....	39 41

Whole expenditure for the year.....	2,760 63
Balance undrawn Jan. 1, 1887.....	1,044 93

\$3,805 56

LIGHTING.

Appropriated and assessed in 1886.....	\$45,000 00	
	\$45,000 00	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF LIGHTING:

From George A. Chase, for lighting ward rooms.....	\$26 00	
E. S. Hosmer, for sale of manure,	2 00	
Kirk Street Church, for lantern..	4 50	
	32 50	
		\$45,032 50

EXPENDITURES.

Paid for LIGHTING PUBLIC
BUILDINGS.

To Lowell Gas Light Company.....	\$1,367 17	
Middlesex Electric Light Company.	551 75	
	\$1,918 92	

Paid for LIGHTING STREETS:

To Sundry persons, for labor as per pay- rolls	\$ 7,549 83	
Appropriation for Roads and Bridges, for labor, lantern frames, etc...	147 49	
Appropriation for Public Buildings, for labor.....	13 75	
Appropriation for Water Works, for water	17 00	
	\$7,728 07	
Amounts carried forward.....		\$9,918 92

<i>Amounts brought forward</i>	\$7,728 07	\$1,918 92
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Paid for LIGHTING STREETS:

To Globe Gas Light Co., for maintenance of street lights.....	1,539 48	
Lowell Gas Light Co., for gas.....	9,769 65	
Middlesex Electric Light Co., for lighting	16,018 20	
Wheeler Reflector Co., for maintenance of street lights.....	4,099 76	
A. L. Brooks & Co., for lumber and labor	5 40	
Badger & Holmes, for lamp posts, etc	59 70	
Middlesex Electric Light Co., for three Brady mast arms.....	45 00	
Pevey Bros., for lamp posts and labor	646 56	
Charles E. Adams, for hardware, lanterns and globes.....	829 97	
John C. Bennett, for hardware and paint	2 13	
H. B. Shattuck, for hardware.....	64	
Frederick Taylor & Co., for hardware	1 47	
H. R. Barker, for tips, fittings, labor, etc	13 70	
T. Costello & Co., for lanterns, lead, solder, labor, etc.....	332 43	
T. R. Garity & Co., for pipe, fittings, and labor.....	247 72	
Frank E. Garland, for torches.....	60 00	
S. G. Mack & Co., for labor.....	1 25	
W. A. Mack & Co., for can and repairing lanterns.....	3 25	
H. H. Wilder & Co., for labor	33 85	
H. F. Ebert, for harness, brush, whip and repairing harnesses.....	55 65	
Fay Bros., for repairing carriages...	138 80	
Coggin, Kidder & Co., for oats.....	7 19	
J. B. Cover & Co., for hay and oats.	72 56	
William E. Livingston, for oats and coal.....	64 19	
E. O'Heir, for hay.....	16 59	
A. G. Stiles & Co., for oats.....	6 30	
C. B. Coburn & Co., for oil, alcohol, glycerine, glass, etc.....	485 34	

<i>Amounts carried forward</i>	\$42,284 85	\$1,918 92
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LIGHTING.

147

<i>Amounts brought forward</i>	\$42,284 85	\$1,918 92
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Paid for LIGHTING STREETS:

To Lawrence Manufacturing Co., for cloth.....	12 30	
Robert Simpson, for matches.....	20 00	
H. C. Church & Son, for blank books, etc.....	5 35	
Coughlin & Co., for diary.....	40	
Morning Mail Co., for cards and printing.....	3 75	
E. A. & A. T. Smith, for concrete..	7 75	
J. H. Redman, for keeping horse...	18 00	
J. L. Noyes & Son, for use of horse,	44 00	
	<hr/>	42,396 40
Whole expenditure for the year.....		\$44,315 32
Balance undrawn Jan. 1, 1887.....		717 18
		<hr/>
		\$45,032 50
		<hr/>

PUBLIC BUILDINGS.

Balance undrawn Jan. 1, 1886.....	\$5,855 02	
Appropriated and assessed in 1886.....	5,000 00	
	<hr/>	\$10,855 02

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF PUBLIC BUILD-
INGS:

From Appropriation for Schools, for labor and material.....	\$1,001 99	
Appropriation for Roads and Bridges, for labor and material.....	4 42	
Appropriation for Paupers, for labor.....	219 28	
Appropriation for Police, for labor and material.....	16 53	
Appropriation for Fire Depart- ment for labor.....	321 68	
Appropriation for Lighting, for labor.....	13 75	
Appropriation for City Hall Build- ing Lot, for labor.....	223 81	
Appropriation for City Library, for labor and material.....	42 73	
Appropriation for Water Works, for labor and material.....	1,119 87	
Reserved Fund, for labor and material.....	620 99	
B. & L. R. R. Corporation, for one half expense of repairs on roof of Huntington Hall....	12 83	
	<hr/>	
<i>Amounts carried forward.....</i>	\$3,597 88	\$10,855 02

Amounts brought forward..... \$3,597 88 \$10,855 02

Received into the TREASURY ON
ACCOUNT OF PUBLIC BUILD-
INGS:

From John Breen, for use of room in Market House building....	4 00	
Thomas Drury, for brick.....	2 50	
John J. Mahoney, for gas fixtures,	6 00	
Old Ladies' Home, for labor.....	17 75	
Joseph E. Shanley, for counter...	9 00	
Union Iron Foundry, for iron...	4 60	
	<hr/>	3,641 73
		<hr/> <hr/> \$14,496 75

EXPENDITURES.

Paid SUPERINTENDENT OF PUB-
LIC BUILDINGS:

To George A. Chase, salary.....	\$1,500 00	
	<hr/>	\$1,500 00

Paid for LUMBER, HARDWARE,
ETC.:

To Otis Allen & Son, for lumber.....	\$ 63 42	
A. L. Brooks & Co., for lumber.....	168 74	
Badger & Holmes, for lumber and labor	17 90	
Burnham & Moran, for lumber.....	160 27	
A. P. Bateman, for lumber.....	30 63	
Davis & Sargent, for lumber.....	39 91	
Amasa Pratt & Co., for lumber.....	111 41	
J. G. Peabody & Sons, for doors....	9 00	
Charles I. Taylor & Co., for labor..	1 75	
Whitney & Tibbetts, for lumber....	117 61	
Charles E. Adams, for hardware....	53 23	
Bartlett & Dow, for hardware.....	36 38	
John C. Bennett, for hardware.....	19 06	
H. B. Shattuck, for hardware.....	24 63	
Frederick Taylor & Co., for hard- ware	48 91	
Boutwell Bros., for iron beams.....	74 06	
	<hr/>	976 91
<i>Amount carried forward</i>		<hr/> <hr/> \$2,476 91

Amount brought forward \$2,476 91

Paid for SUNDRIES:

To Sundry persons, for labor as per pay-rolls	\$5,690 61	
Appropriation for roads and Bridges, for labor and material.....	59 18	
Appropriation for Water Works, for water and labor.....	28 00	
O. E. Averill, for blacksmithing.....	2 95	
H. R. Barker, for pipe, fittings, radiators, gas fixtures, labor, etc	275 34	
T. Costello & Co., for pipe, lead, copper, labor, etc.....	135 29	
Browning, Ladd & Speirs, for pipe, fittings and labor.....	96 62	
Farrell & Conaton, for pipe, brackets and labor.....	14 47	
T. R. Garity & Co., for pipe, fittings and labor.....	114 75	
M. V. B. Libbey, for shoeing horse.....	22 10	
S. G. Mack & Co., for cornice, roofing, register, labor, etc.....	50 81	
W. A. Mack & Co., for copper, solder and labor.....	21 03	
William Robinson, for labor.....	6 00	
Seannell & Wholey, for pipe, inspecting boiler, labor, etc... ..	31 89	
Union Iron Foundry Co., for castings	69 33	
H. H. Wilder & Co., for tin, nails and labor.....	20 62	
L. F. Kittredge, for stone.....	1 00	
Sweatt & Davis, for window caps...	20 00	
C. B. Coburn & Co., for oil, shellac, paint, glass, bronze, packing, brushes, etc.....	150 47	
Albert Crowell, for bellows.....	75	
O. Duckworth, for glass and brushes,	24 50	
Fiske & Spalding, for paper, paste, lead and varnish.....	24 83	
Thomas F. Handley, for repairing canvas	1 25	
Jonathan Kendall & Co., for paint..	8 16	
A. L. Kittredge, for oil, spirits turpentine and glass.....	44 68	

Amounts carried forward..... \$6,914 63 \$2,476 91

<i>Amounts brought forward</i>	\$6,914 63	\$2,476 91
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Paid for SUNDRIES:

To William Kittredge, for lime and cement.....	7 10	
William E. Livingston, for sand, brick and coal.....	109 45	
Eugene N. Morrill, for paper hangings.....	4 38	
N. Y. Belting and Packing Co., for stair corners.....	5 00	
W. H. Spalding & Co., for lead.....	47 58	
P. J. Smith, for cloth.....	3 32	
Talbot Dyewood & Chemical Co., for muriatic acid.....	20	
Lowell Gas Light Co., for gas.....	55 14	
N. E. Telephone and Telegraph Co., for service.....	36 00	
Bacheller, Dumas & Co., for blank books.....	8 00	
H. C. Church & Son, for paper and eraser.....	3 60	
O. L. Cambridge, for paper and mucilage.....	50	
Citizen Newspaper Co., for cards and printing.....	6 50	
Philip Ginty, for slating.....	9 00	
Robert Goulding, for slate, zinc and labor.....	28 01	
E. A. & A. T. Smith, for repairing concrete.....	5 00	
S. D. Butterworth, for labor and material.....	25 80	
E. W. Coburn, for mason work and material.....	209 50	
Coburn & Crosby, for mason work and material.....	310 24	
Rollins & Sargent, for mason work and material.....	108 16	
Staples Bros., for labor and material,	86 33	
George F. Allen, for labor.....	2 00	
Dyer & Patterson, leather, whip, labor, etc.....	17 45	
Sawyer Carriage Co., for repairing carriages.....	81 86	
Atkins & Harmon, for carriage hire and use of horse.....	19 00	

<i>Amounts carried forward</i>	\$8,103 75	\$2,476 91
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<i>Amounts brought forward.....</i>	\$8,103 75	\$2,476 91
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Paid for SUNDRIES:

To J. H. Sparks, for professional services	5 00	
O. Bartlett, for teaming.....	50	
W. T. Griffin, for teaming.....	11 87	
John Harrington, for teaming.....	1 00	
H. P. Hasey, for teaming.....	9 25	
D. P. Knowlton, for teaming.....	50	
James Leach, for teaming.....	1 50	
T. G. Little, for teaming.....	50	
J. D. Mason, for teaming.....	75	
Frank Meehan, for teaming.....	1 00	
Daniel McCarthy, for teaming.....	2 50	
James Nixon, for teaming.....	2 50	
William Roberts, for teaming.....	2 00	
John Regan, for teaming.....	1 50	
O. A. Simpson, for teaming and use of derrick.....	4 00	
U. S. & C. Express, for transportation	15	
	<hr/>	8,148 27
Whole expenditure for the year.....		\$10,625 18
Transferred to Appropriation for Schools,		2,167 07
Balance undrawn Jan. 1, 1887.....		1,704 50
		<hr/>
		\$14,496 75
		<hr/> <hr/>

CITY HALL BUILDING LOT.

Balance undrawn Jan. 1, 1886.....	\$6,865 34	
	<hr/>	\$6,865 34

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF CITY HALL
BUILDING LOT:

From Sundry persons, for rent as fol-
lows:

A. Bernard.....	\$ 96 00	
Mrs. Bohonon.....	96 00	
William Charlton.....	96 00	
Michael Campion.....	96 00	
John F. Cosgrove.....	240 00	
Joseph F. Convery.....	32 00	
John Gillon.....	108 00	
M. J. McDermott.....	120 00	
F. J. O'Rourke.....	108 00	
James M. Peirce.....	192 00	
Hattie Queenan.....	96 00	
Cornelius Regan.....	96 00	
W. N. Roberts.....	208 00	
M. W. Stockman.....	192 00	
W. N. Smith.....	192 00	
	<hr/>	1,968 00
		<hr/>
		\$8,833 34
		<hr/>

EXPENDITURES.

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for labor.....	\$23 25
	<hr/>
Amount carried forward.....	\$23 25

Amount brought forward..... \$23 25

Paid for SUNDRIES:

To Appropriation for Public Buildings, for labor.....	223 81
Appropriation for Water Works, for water and labor.....	101 92
Badger & Holmes, for posts.....	14 60
A. L. Brooks & Co., for lumber and labor	24 02
Amasa Pratt & Co., for lumber.....	34 37
John C. Bennett, for hardware.....	1 20
Frederick Taylor & Co., for hard- ware	3 71
H. R. Barker, for pipe, etc.....	3 61
L. J. Frost, for strainers.....	3 20
John Gilchrist, for pipe, solder, pack- ing and labor.....	10 08
T. R. Garity & Co., for pipe and labor	1 25
M. J. Hennessey, for pipe, solder and labor.....	37 64
W. A. Mack & Co., for lead pipe and labor	1 50
H. B. Barnes, for paper hangings...	3 21
C. B. Coburn & Co., for paint, etc..	7 80
Shea & McOsker, for paper hang- ings.....	11 83
P. W. Brown, for labor.....	83 88
Fred A. Fox, for removing night soil.....	26 25
W. T. Griffin, for teaming.....	6 75
Daniel McCarthy, for teaming.....	50
James Leach, for teaming.....	50
E. A. Wood, for teaming.....	50

Whole expenditure for the year.....

625 38

Balance undrawn Jan. 1, 1887.....

8,207 96

\$8,833 34

CITY LIBRARY.

Balance undrawn Jan. 1, 1886.....	\$ 344 76	
Appropriated and assessed in 1886.....	12,000 00	
	<hr/>	\$12,344 76

RECEIPTS.

Received into the TREASURY ON ACCOUNT OF CITY LIBRARY:		
From Charles H. Burbank, for fines, sub- scriptions, catalogues, books, waste paper, etc.....	\$ 342 23	
County of Middlesex, on account of dog licenses of 1885.....	2,283 77	
W. B. Clarke & Carruth, for over- draft.....	4 31	
	<hr/>	2,630 31
Transferred from Appropriation for School Houses.....		315 31
		<hr/>
		\$15,290 38
		<hr/> <hr/>

EXPENDITURES.

Paid LIBRARIAN AND ASSIST- ANTS:	
To Charles H. Burbank, Librarian, salary.....	\$1,500 00
Walter H. Gilman.....	715 50
Stephen T. Wyman.....	715 50
	<hr/>
<i>Amount carried forward</i>	\$2,931 00

Amount brought forward \$2,931 00

Paid LIBRARIAN AND ASSIST-
ANTS:

To Edward F. Slattery.....	675 50
Fred A. Wright.....	601 87
Harriet F. Hill.....	635 00
Clara Beard.....	396 25
Florence M. Washburn.....	393 75
Roger Walker.....	238 50
John Reardon.....	136 50
Daniel E. Hogan.....	160 50
George T. Manchester.....	24 00

\$6,192 87

Paid for BOOKS, PERIODICALS,
ETC.:

To D. Appleton & Co.....	\$ 68 50
N. J. Bartlett & Co.....	104 73
Book Mart Publishing Co.....	1 50
Bangs & Co.....	9 59
Mary A. Bailey.....	2 00
William P. Blaney.....	3 88
Boston Atheneum Library.....	21 00
T. O. H. P. Burnham.....	3 50
L. A. Cadwell.....	11 00
Estate of Robert Crossley.....	4 00
Carson, Stewart & Co.....	6 00
Cassell & Co.....	22 50
E. E. Cadue.....	22 50
Cupples, Upham & Co.....	19 04
A. S. Clark.....	2 60
S. E. Cassino & Co.....	7 00
F. P. Coggeshall.....	20 00
Campbell & Hanscom.....	6 00
Citizen Newspaper Co.....	5 00
Coughlin & Co.....	58 55
W. B. Clarke & Carruth.....	1,134 14
Charles Cowley.....	2 50
Carter, Rice & Co.....	10 00
Warren F. Draper.....	49 02
Estes & Lauriat.....	818 05
George E. Foster.....	1 09
Fords, Howard & Hulbert.....	16 25
Mark Gould.....	2 25
Grand Army Bazaar.....	30 00

Amounts carried forward \$2,462 19 \$6,192 87

Amounts brought forward \$2,462 19 \$6,192 87

Paid for BOOKS, PERIODICALS,
ETC.:

To J. H. Hiecox.....	2 00
Francis P. Harper.....	89 50
Frank P. Hill.....	124 05
Humphrey & Co.....	5 55
Houghton, Mifflin & Co.....	45 00
Interstate Publishing Co.....	3 65
Alvin J. Johnson & Co.....	6 00
Horace H. Knapp.....	7 50
W. H. Lowdermilk & Co.....	48 85
George E. Littlefield.....	225 36
Charles F. Libbie & Co.....	625 99
Library Bureau.....	44 75
Lewiston Weekly Journal.....	1 00
Lowell Weekly Sun.....	6 00
Lowell Daily Courier.....	6 00
Mason & Fowler.....	15 00
John N. McKlintock.....	16 00
Henry J. Morgan.....	5 00
Townsend MacCoun.....	5 60
L. C. Manchester.....	78 22
Marston & Prince.....	503 45
Morning Mail Co.....	12 00
Magazine of American History.....	51 50
Henry C. Nash.....	6 00
N. K. Noyes.....	3 50
New York Zeitung.....	4 00
New England Historic Genealogical Society.....	3 00
New Hampshire Democratic Press Co.....	4 00
Office Publishers' Weekly.....	11 70
E. P. Peirce.....	3 00
Publishers of Science.....	5 00
C. E. Raymond.....	6 00
Requesens, Ricardo & Co.....	2 00
G. T. Richardson.....	2 00
Charles C. Soule.....	6 50
J. M. Stoddart Co.....	6 00
J. C. Stockbridge.....	5 75
D. P. Stacey.....	8 00
Southern Historical Society.....	3 75
Soldiers and Sailors Historical So- ciety of R. I.....	7 55

Amounts carried forward..... \$4,477 91 \$6,192 87

Amounts brought forward..... \$4,477 91 \$6,192 87

Paid for BOOKS, PERIODICALS,
ETC.:

To Sampson, Murdock & Co.....	20 00	
J. H. Soulé & Co.....	3 30	
W. H. Thompson & Co.....	40 00	
E. Whitefield.....	9 50	
H. L. Whitcomb.....	1 60	
P. R. Warren.....	6 00	
	<hr/>	4,558 31

Paid for SUNDRIES:

To Appropriation for Public Buildings, for lumber and labor.....	\$ 42 73	
G. W. Bagley, for labor.....	2 75	
H. B. Shattuck, for hardware.....	2 08	
Frederick Taylor & Co., for hard- ware and tools.....	5 43	
H. R. Barker, for pipe, fixture, burn- er, labor, etc.....	28 11	
L. A. Derby & Co., for wire, zinc and labor.....	1 73	
T. R. Garity & Co., for globes, burn- ers, holders and labor.....	4 70	
S. G. Mack & Co., for zinc pan.....	1 00	
H. H. Wilder & Co., for zinc pan...	1 00	
H. H. Wilder & Co., for hose pack- ing and labor.....	4 44	
Clinton L. Bruce, for cloth, paper and glue.....	10 50	
C. B. Coburn & Co., for glue, shellac, borax, soap, etc.....	19 92	
Daniel Gage, for ice.....	21 96	
H. A. Kittredge, for paste.....	4 04	
W. H. Spalding & Co., for shellac and labor.....	6 34	
Talbot Dyewood & Chemical Co., for powder.....	2 00	
Adams & Co., for chairs, stools and steps.....	20 70	
Marshall & Crosby, for library case and boxes.....	103 00	
Offutt & Whitaker, for matting and repairing chairs.....	3 34	
Sherman & Manning, for bookcase and hassock.....	11 25	
	<hr/>	
<i>Amounts carried forward</i>	\$296 02	\$10,751 18

<i>Amounts brought forward</i>	\$296 02	\$10,751 18
Paid for SUNDRIES:		
To Stewart, Reid & Co., for cloth.....	2 25	
J. J. Cluin, for badge.....	2 00	
Lowell Gas Light Co., for gas.....	370 61	
Middlesex Electric Light Co., for lighting.....	576 00	
N. E. Telephone & Telegraph Co., for service.....	44 00	
C. H. Burbank, for cash paid for rent of P. O. box, postage, express- ing, pens, traveling expenses, etc.....	146 72	
Walter H. Gilman, for laundering towels.....	2 08	
E. T. Abbott, for insurance.....	7 50	
H. C. Church & Son, for insurance..	27 50	
Geo. W. Coburn & Son, for insur- ance.....	7 50	
Charles Coburn, for insurance.....	49 50	
Thomas L. Dickey, for insurance...	7 50	
Thomas C. Lee, for insurance.....	7 50	
George E. Metcalf, for insurance...	7 50	
F. W. Sherman, for insurance.....	15 00	
E. M. Tucke, for insurance.....	31 50	
H. C. Church & Son, for stationery, rubber bands, ink, etc.....	6 23	
F. P. Coggeshall, for blank books and paper.....	22 60	
J. M. Fellows, for stamps and pad..	5 40	
Marston & Prince, for glass and re- pairing frame.....	40	
National Plaster Co., for plaster....	2 00	
Bachelor, Dumas & Co., for blank books, cards, binding and letter- ing.....	553 46	
Citizen Newspaper Co., for blocks and printing.....	6 00	
Campbell & Hanscom, for printing.	114 00	
Daily News Co., for printing.....	7 00	
Morning Mail Co., for paper and printing.....	142 57	
Marden & Rowell, for printing.....	4 75	
Harrington Bros., for printing.....	9 75	
P. F. Van Everen, for numbers.....	3 07	
Vox Populi Press, for printing.....	37 25	
<i>Amounts carried forward</i>	\$2,515 16	\$10,751 18

<i>Amounts brought forward</i>	\$2,515 15	\$10,751 18
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Paid for SUNDRIES :

To Edson Block, for rent.....	600 00	
Trustees of A. H. Hosford, for rent, heating and water.....	1,412 00	
Hutchins & Co., for sprinkling street,	6 50	
James T. Trask, for teaming.....	4 04	
G. E. Stanley, for teaming.....	75	
Lovejoy-Paul Express, for transpor- tation	75	
	<hr/>	4,539 20

Whole expenditure for the year.....	<hr/> <hr/>	\$15,290 38
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HEALTH.

Appropriated and assessed in 1886.....	\$12,000 00	
	<hr/>	\$12,000 00

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF HEALTH:

From Appropriation for Paupers, for amount received from Com- monwealth for board and care of small-pox patients.....	\$ 317 00	
James W. B. Shaw, for sales of offal.....	4,342 00	
	<hr/>	4,659 00
Transferred from Reserved Fund.....		2,000 00
		<hr/>
		\$18,659 00
		<hr/>

EXPENDITURES.

Paid BOARD OF HEALTH:

To James W. B. Shaw, salary.....	\$500 00	
James J. McCarty, salary.....	41 67	
Nathan Allen, salary.....	458 33	
	<hr/>	\$1,000 00

Paid for HAY, GRAIN, ETC.:

To W. W. Butler, for straw.....	\$ 23 08	
Coggin, Kidder & Co., for hay and corn.....	30 31	
	<hr/>	
Amounts carried forward.....	\$53 39	\$1,000 00

<i>Amounts brought forward</i>	\$53 39	\$1,000 00
Paid for HAY, GRAIN, ETC.:		
To W. P. Foye, for corn, meal and shorts.....	10 00	
Hosmer, Crampton & Hammond, for hay.....	232 84	
William E. Livingston, for corn, meal and oats.....	722 97	
Joseph Miller, for corn and meal...	19 62	
Parks Bros., for hay.....	592 87	
A. G. Stiles & Co., for corn meal, and shorts.....	12 91	
E. N. Wood & Co., for corn, meal, shorts and oats.....	31 94	
G. B. Whitney, for hay.....	130 12	
	<hr/>	1,806 66
Paid for HORSES, CARRIAGES, HARNESSES, ETC.:		
To Appropriation for Roads and Bridges, for sled, repairing harnesses, etc.....	\$494 18	
F. A. Bates, for horse, carriage, sleigh, harness and robes.....	350 00	
Boutwell Bros., for shafts, spokes, etc.....	2 40	
H. F. Ebert, for horse covers, bells, whips, straps and soap.....	219 10	
W. W. Kelley, for harness.....	25 00	
Aaron C. Sawyer, for robe.....	11 00	
Edwin Cope, for sled.....	25 00	
Henry J. Draper, for painting wagon and sleigh.....	29 00	
James Mahon, for wagon.....	40 00	
George Richardson, for horses.....	275 00	
	<hr/>	1,470 68
Paid for SUNDRIES:		
To Sundry persons, for labor as per pay-rolls.....	\$13,020 52	
Appropriation for Schools, for coal.	15 63	
Appropriation for Roads and Bridges, for services of watchman.....	91 00	
Appropriation for Paupers, for provisions delivered at Pest-house.	20 00	
	<hr/>	
<i>Amounts carried forward</i>	\$13,147 15	\$4,277 34

Amounts brought forward..... \$13,147 15 \$4,277 34

Paid for SUNDRIES :

To Appropriation for Police, for services of officers.....	3 75	
Appropriation for Water Works, for water.....	72 00	
Burnham & Moran, for lumber.....	42 37	
Charles E. Adams, for hardware....	40 89	
H. R. Barker, for pipe and labor....	6 95	
W. A. Mack & Co., for stovepipe...	1 32	
H. H. Wilder & Co., for sprinkler, cans, tunnels, etc.....	5 15	
Charles W. Wilder, for tubs.....	1 50	
C. Zimmer, for keys.....	90	
C. B. Coburn & Co., for oil, varnish, asphaltum, putty, camphor, brooms, etc.....	39 11	
Thaddeus S. Cobb, for belting and axle grease.....	10 60	
Henry Emery, for oil.....	7 41	
J. F. Puffer & Son, for basket.....	50	
W. H. Spalding & Co., for shade and fixtures	80	
P. J. Smith, for canvas.....	6 12	
H. Farrell & Son, for provision.....	1 20	
B. Bedell, for sign.....	1 00	
E. F. Hathaway, for signs.....	10 58	
F. & E. Bailey & Co., for vaccine virus	6 00	
Ellingwood & Co., for vaccine points,	9 44	
C. R. Kimball, for vaccine virus and chloride lime.....	2 00	
G. Lawrence for medicine for horses,	5 00	
S. E. Tweed, for liniment.....	6 00	
Lucius M. Wright, for hoof liquid..	5 00	
H. C. Church & Son, for blank books and stationery.....	7 95	
F. P. Coggeshall, for mucilage.....	25	
Lowell Rubber Type Co., for stamp.	4 50	
Campbell & Hanscom, for printing..	25 15	
Lowell Daily Courier, for subscrip- tion	6 00	
Morning Mail Co., for printing and advertising	7 50	
Marden & Rowell, for printing.....	6 00	
Vox Populi Press, for printing	7 00	

Amounts carried forward \$13,497 09 \$4,277 34

Amounts brought forward \$13,497 09 \$4,277 34

Paid for SUNDRIES:

Edward Cawley, for coal.....	27 75
William E. Livingston, for coal....	7 29
Staples Bros., for pipe, cement and labor	1 17
Lowell Gas Light Co., for gas.....	26 08
Lowell Institute for savings, for rent.....	200 00
Proprietors of Locks and Canals on Merrimack River, for rent of land.....	20 00
F. A. Bates, for cash paid for postal cards, stamps, etc.....	13 77
W. A. Sherman, for professional ser- vices	8 00
J. H. Sparks, for professional ser- vices.....	2 00
John J. Colton, for vaccinating.....	33 00
W. A. Johnson, for vaccinating....	112 50
James J. McCarty, for vaccinating..	9 00
O. A. Willard, for vaccinating.....	1 00
Patrick Savage, for pasturing horses,	5 50
C. E. Bohonon, for carriage hire....	70
George Richardson, for blankets, car- riage hire and use of horse....	88 47
Charles F. Keyes, for use of horse..	8 04
George B. Whitney, for use of horse	12 00

14,073 36

Whole expenditure for the year.....

\$18,350 70

Balance undrawn Jan. 1, 1887.....

308 30

\$18,659 00

WATER WORKS.

Balance undrawn Jan. 1, 1886.....	\$ 163 55	
Appropriated and assessed in 1886.....	3,000 00	
	<hr/>	\$ 3,163 55

RECEIPTS.

Received into the TREASURY ON
A C C O U N T O F W A T E R
W O R K S :

From Sundry persons, for water in 1885.....	\$ 16,682 26	
Sundry persons, for water in 1886.....	153,315 79	
	<hr/>	169,998 05
		<hr/>
		\$173,161 60
		<hr/>

EXPENDITURES.

Paid PRESIDENT AND SUPERIN-
TENDENT :

To Walter Coburn, President, salary...	\$ 300 00	
Horace G. Holden, Superintendent, salary.....	1,600 00	
	<hr/>	\$1,900 00

Paid for LABOR AS PER PAY-
ROLLS .

In January.....	\$1,765 50	
February.....	1,172 47	
	<hr/>	
<i>Amounts carried forward.....</i>	\$2,937 97	\$1,900 00

Amounts brought forward..... \$2,937 97 \$ 1,900 00

Paid for LABOR AS PER PAY-
ROLLS:

In March.....	1,266 28	
April.....	1,821 53	
May.....	2,314 83	
June.....	1,889 27	
July.....	2,568 14	
August.....	2,063 33	
September.....	1,925 14	
October.....	2,419 24	
November.....	1,948 42	
December.....	1,658 01	
	<hr/>	22,812 16

Paid for INTEREST:

To Sundry persons, on City of Lowell Water Loan Bonds.....	\$79,410 00	
Commonwealth, on note.....	1,250 00	
City Institution for Savings, on note.....	3,250 00	
Lowell Institution for Savings, on notes.....	25,100 00	
Blake Bros. & Co., on notes.....	3,000 00	
Commissioners of Sinking Funds, on notes.....	525 00	
	<hr/>	112,535 00

Paid for FUEL:

To Lewis S. Adams, for coal.....	\$ 101 71	
Daniel Gage, for wood.....	30 94	
William E. Livingston, for coal....	4,428 99	
Franklin T. Wilson, for wood.....	16 00	
Whithed & Co., for coal.....	404 95	
	<hr/>	4,982 59

Paid for PIPE, METERS, HY-
DRANTS, ETC.:

To Charles E. Adams, for lead pipe and reels.....	\$ 274 22	
Acushnet Iron Co., for offsets.....	21 90	
H. R. Barker, for pipe, fittings, valves, etc.....	1,237 85	
Boston Lead Manufacturing Co., for lead.....	95 76	
	<hr/>	
<i>Amounts carried forward</i>	\$1,629 73	\$142,229 75

Amounts brought forward..... \$1,629 73 \$142,229 75

Paid for PIPE, METERS, HY-
DRANTS, ETC.:

To Chapman Valve Manufacturing Co., for water gates.....	45 39	
Cushman Chuck Co., for lathe chuck,	13 50	
W. E. Desper & Co., for tools, re- pairing meters, etc.....	1,006 78	
Donaldson Iron Co., for pipe.....	2,197 08	
T. R. Garity & Co., for pipe, fittings, tin, etc.....	471 90	
Charles E. Gee, for coupling.....	3 00	
Hill, Clark & Co., for chuck.....	6 30	
M. D. Jones & Co., for drinking fountain.....	125 00	
Joel Knapp, for bolts and washers..	1 92	
Ludlow Valve Manufacturing Co., for pipe, hydrants, wrench, etc.	684 90	
Merrimac Iron Foundry, for cast- ings.....	64 21	
Mellert Foundry & Machine Co., for pipe.....	3,716 40	
National Meter Co., for meters.....	767 34	
Proprietors of Locks and Canals on Merrimack River, for sleeves..	1 57	
Summer & Goodwin, for fittings....	31 60	
George Suttle for meter.....	10 00	
Frederick Taylor & Co., for lead pipe, reels, etc.....	1,122 09	
Union Water Meter Co., for repair- ing meter.....	5 00	
Henry R. Worthington, for meter levers.....	6 12	
Walworth Manufacturing Co., for cutter.....	7 49	
	<hr/>	11,917 32

Paid on ACCOUNT OF LOAN:

To Lowell Institution for Savings, in- stalment on note.....	\$3,000 00	
	<hr/>	3,000 00

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for services of City Engineer, brick, sand, labor, etc.....	\$667 40	
	<hr/>	
<i>Amounts carried forward</i>	\$667 40	\$157,047 07

Amounts brought forward..... \$ 667 40 \$157,147 07

Paid for SUNDRIES :

To Appropriation for Fire Department, for manure and labor.....	50 00	
Appropriation for Public Buildings, for lumber, labor, etc.....	1,119 87	
Reserved Fund, for rent and labor..	82 00	
Sundry persons, for amount refunded on Water Rates.....	1,260 55	
A. L. Brooks & Co., for lumber.....	210 38	
Burnham & Moran, for lumber.....	184 76	
A. P. Bateman, for lumber.....	85 30	
Badger & Holmes, for mauls.....	8 00	
Amasa Pratt & Co., for lumber.....	232 94	
Proprietors of Locks and Canals on Merrimack River, for kyanizing lumber, etc.....	27 04	
Whitney & Tibbetts, for lumber....	72 73	
Charles E. Adams for hardware....	397 96	
Sager Ashworth & Co., for files and labor	9 26	
Bartlett & Dow, for hardware, etc..	53 67	
John C. Bennett, for hardware.....	16 47	
H. B. Shattuck, for hardware.....	138 32	
Frederick Taylor & Co., for hard- ware, etc.....	244 08	
American Bolt Co., for rods and bolts	17 85	
Boutwell Bros., for iron.....	87 30	
E. P. Bryant, for blacksmithing....	50	
Thaddeus S. Cobb, for pulleys.....	2 67	
Cahill Bros., for shoeing horses....	25 50	
Charles Carr, for disks, re-building tapping machine, etc.....	31 85	
Cole & Nichols, for castings.....	328 62	
Edward Dewey & Co., for springs, barrel etc.....	2 44	
Farrell & Conaton, for labor.... ..	40	
Ariston Grover, for brand.....	2 00	
J. H. Haskell, for filing saws.....	2 84	
Hill, Clarke & Co., for lathe and rest	169 70	
Joel Knapp & Son, for rods.....	67	
S. G. Mack & Co., for galvanized iron, solder and labor.....	82 33	
W. A. Mack & Co., for register, tube and zinc.....	2 23	

Amounts carried forward..... \$5,617 63 \$154,717 07

Amounts brought forward..... \$5,617 63 \$157,147 07

Paid for SUNDRIES :

To Nashua Iron and Steel Co., for iron and labor	8 55
F. S. Perkins, for lathe, drill, etc...	276 00
Henry Potter, for repairing stove...	2 50
Pevey Bros, for castings	22 56
R. I. Telephone and Electric Co., for lightning rods	69 48
Jerry Ryan, for pipe, fittings and labor	19 13
George A. Rollins & Co., for labor..	5 50
S. C. & G. H. Smith, for cap screws,	2 76
A. L. Smith, for composition	17 48
Scannell & Wholey, for iron, bolts, labor, etc	18 85
H. H. Wilder & Co., for dipper and pan	9 42
C. Zimmer, for keys	3 50
C. B. Coburn & Co., for oil, glass, rope, hose, paint, packing, etc..	319 35
Carleton & Hovey, for insect powder, soap, matches, thermometer, etc.	3 85
Albert Crowell, for matches	1 50
French & Puffer, for cuspadores	5 50
Fiske & Spalding, for shades, fixtures, paper, glass, etc..	29 85
Josiah Gates & Sons, for belting, leather and labor	21 14
Samuel Horn & Co., for tallow	12 10
A. L. Kittredge, for shades	8 00
Eugene N. Morrill, for paper and moulding	28 82
Miller Bros., for oil	30
Nichols & Fletcher, for dualin, exploders, matches, brooms, salt, etc	27 49
N. Y. Belting & Packing Co., for perforated mat	10 96
Pettingell Chimney Cap Co., for glass pipe	1 25
Rice & Co., for railing, wire, scroll, etc	91 85
W. H. Spalding & Co., for paper, paste, etc	68 70
George H. Sampson, for forcite and and exploders	20 00

Amounts carried forward..... \$6,724 02 \$157,147 07

Amounts brought forward..... \$6,724 02 \$157,147 07

Paid for SUNDRIES :

To Spencer & Co., for signs.....	15 20
Talbot Dyewood & Chemical Co., for oxalic acid.....	32
U. S. Cord Co., for cord.....	1 80
Union Glass Co., jars.....	7 49
Lucius M. Wright, for liniment....	1 00
C. D. Washburn, for oil, matches, mop, etc.....	5 30
Adams & Co., for linoleum, desks and baskets.....	135 25
Keeler & Co., for desk, burlap, etc..	48 70
George S. Perry, for mats.....	6 00
Paine's Furniture Co., for settee, table and burlap.....	32 70
S. L. Butman, for fly-net and whip..	3 75
T. M. Bolton & Co., for whip, curry comb and repairing harness....	21 00
Robert Barris, for whip socket.....	3 75
H. F. Ebert, for blanket and repair- ing harness.....	8 15
Henry J. Draper, for repairing car- riages.....	22 25
Fay Bros., for difference between carriages exchanged and repair- ing carriage.....	100 00
Buffalo Lubricating Oil Co., for oil.	24 00
H. K. Ferrin, for difference between sleighs exchanged.....	50 00
William E. Livingston, for brick, cement, sand, lime, straw, oats and corn.....	175 31
J. G. Rogers & Co., for corn, oats and oatmeal.....	45 60
Jonathan Fox, for gravel.....	24 50
Hugh Green, for stone.....	10 00
Whithed & Co., for brick and lime..	27 48
Lowell Gas Light Co., for gas and coke.....	130 52
N. E. Telephone and Telegraph Co., for service.....	204 12
Bacheller, Dumas & Co., for blank books, printing, etc.....	126 45
Henry Belgrade, for stamp.....	5 00
Thomas Groom & Co., for books....	3 00

Amounts carried forward..... \$7,962 66 \$157,147 07

Amounts brought forward..... \$7,962 66 \$157,147 07

Paid for SUNDRIES:

To Citizen Newspaper Co., for printing, advertising, etc.....	164 30
H. C. Church & Son, for paper, pens, inkstands and frames.....	30 59
Coughlin & Co., for blank books, pencils and ink.....	9 17
F. P. Coggeshall, for stationery, etc.	8 85
Campbell & Hanscom, for printing and advertising.....	37 27
Marden & Rowell, for blank books, printing and advertising.....	104 02
Marston & Prince, for subscription.	9 44
Morning Mail Co., for printing and advertising.....	21 89
J. Merrill & Son, for blank books and ink.....	85
Vox Populi Press, for printing.....	5 75
A. Whitney, for blank books and pencils.....	2 16
Alvin Lawrence, for clock oil.....	20
George Thatcher, for repairing clock.....	1 50
John C. Lannan, for difference be- tween horses exchanged.....	100 00
W. D. Lowell, for boat and oars....	16 25
Luke McFarlin, for use of boat....	4 00
Andrew J. Devoll, for cash paid for stamps, labor, etc.....	44 25
George E. Evans, for cash paid for traveling expenses.....	1 40
L. T. Farris, for cash paid for use of telephone.....	10 00
H. G. Holden, for cash paid for traveling expenses, stamps, etc.	39 08
Horace H. Knapp, for cash paid for traveling expenses, postage and rent of P. O. box.....	20 80
James P. Roberts, for cash paid for traveling expenses, shaft and hangers.....	16 80
Coburn & Crosby, for mason work and material.....	643 28
Staples Bros., for pipe, brick, cement and labor.....	1,277 81

Amounts carried forward ... \$10,532 32 \$157,147 07

Amounts brought forward \$10,532 32 \$157,147 07

Paid for SUNDRIES:

To Sweatt & Davis, for stone and labor,	25 25	
E. A. & A. T. Smith, for concrete...	135 20	
J. W. Bennett & Co., for roofing....	8 26	
Robert Goulding, for slate, zinc and labor	179 92	
S. H. Weaver & Son, for paper and pitch	50	
John H. Gilman, for professional services	156 00	
M. G. Parker, for professional ser- vices	8 00	
W. A. Sherman, for professional ser- vices	3 00	
Hutchins & Co., for watering street.	6 50	
Lamson & Spalding, for use of land for draining reservoir	100 00	
O. H. P. Trask, for labor	38 44	
M. C. Huntoon, for repairing boots.	70	
C. H. Hanson & Co., for use of horse	5 00	
E. H. Morse, for carriage hire	2 50	
B. G. Brown, for teaming	293 39	
H. M. Bickford, for teaming	4 00	
W. T. Griffin, for teaming	22 00	
F. S. Ladd, for teaming	2 00	
Daniel McCarthy, for teaming	4 00	
John Regan, for teaming	2 50	
O. A. Simpson, for teaming	35 00	
F. A. Smiley, for teaming	50	
Lovejoy-Paul Express, for transpor- tation	2 55	
N. Y. & Boston Despatch Express, for transportation	75	
Rand Express Co., for transpor- tation	2 75	
U. S. & C Express, for transpor- tation	6 40	
B. & L. R. R., for transportation...	376 19	
B. & M. R. R., for transportation...	4 53	
	<hr/>	11,958 15
Whole expenditure for the year		\$169,105 22
Balance undrawn Jan. 1, 1887		4,056 38
		<hr/>
		\$173,161 60

Expended in 1870.....	\$ 95,057 00	
Expended in 1871.....	624,151 66	
Expended in 1872.....	560,708 40	
Expended in 1873.....	349,717 87	
Expended in 1874.....	233,370 63	
Expended in 1875.....	275,660 78	
Expended in 1876.....	221,502 24	
Expended in 1877.....	163,814 28	
Expended in 1878.....	158,510 13	
Expended in 1879.....	150,047 82	
Expended in 1880.....	154,391 59	
Expended in 1881.....	231,171 27	
Expended in 1882.....	173,645 92	
Expended in 1883.....	180,280 28	
Expended in 1884.....	175,290 02	
Expended in 1885.....	176,972 56	
Expended in 1886.....	169,105 22	
<hr/>		
Total Expenditure to Jan. 1, 1887.....		\$4,093,397 69
Total Receipts to Jan. 1, 1887.....		1,708,825 38
		<hr/>
Net Cost of Water Works to Jan. 1, 1887.....		\$2,384,572 31
		<hr/>

TAYLOR STREET.

Balance undrawn Jan. 1, 1886.....	\$9,611 74	
	<hr/>	\$9,611 74
		<hr/>

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor.....	\$ 94 04	
Frank and Jane Cox, for damages..	1,618 80	
Eliza Cowley, for damages.....	200 00	
Patrick Murphy, per resolution.....	25 00	
	<hr/>	
Whole expenditure for the year.....		\$1,937 84
Balance undrawn Jan. 1, 1887.....		7,673 90
		<hr/>
		\$9,611 74
		<hr/>

SALARIES.

Appropriated and assessed in 1886.....	\$18,200 00	
	<hr/>	\$18,200 00

EXPENDITURES.

Paid SALARIES OF SUNDRY OFFICERS:

To James C. Abbott, Mayor.....	\$2,000 00
Van B. Sleeper, City Treasurer and Collector of Taxes.....	2,500 00
Samuel M. Chase, City Clerk.....	1,800 00
David Chase, Auditor of Accounts and Clerk of Common Council.	1,800 00
George F. Lawton, City Solicitor...	350 00
John J. Pickman, City Solicitor ...	1,026 67
Girard P. Dadman, City Messenger.	1,000 00
John J. Colton, City Physician.....	400 00
Alvin A. Hanscom, Inspector of Milk and Vinegar.....	300 00
Nathaniel E. Annis, Sealer of Weights and Measures.....	40 33
James T. Murray, Sealer of Weights and Measures.....	159 67
Luke McFarlin, Fish Warden.....	75
Oren C. Carlton, Fish Warden	39 25
James A. Manuel, Pound-keeper....	25 00
John J. Harvey, Registrar of Voters,	400 00
J. Frank Page, Registrar of Voters.	400 00
Fred P. Marble, Registrar of Voters.	400 00
Michael H. McCue, Assessor of Taxes (Chairman)	1,000 00
<i>Amount carried forward</i>	<hr/> \$13,641 67

Amount brought forward..... \$13,641 67

Paid for SALARIES OF SUNDRY
OFFICERS:

To Fred N. Edgell, Assessor of Tax (Secretary)	925 00
James Marren, Assessor of Taxes...	900 00
William W. Read, Assessor of Taxes	900 00
Alfred Barney, Assessor of Taxes..	900 00
Harrison W. Streeter, Assessor of Taxes	900 00

Whole expenditure for the year.....	\$18,166 67
Balance undrawn Jan. 1, 1887.....	33 33

\$18,200 00

STATE AID.

For Disabled Soldiers and Sailors and their Families, and for the Families of the Slain, under an Act of the Legislature of the Commonwealth, Chapter 192, approved May 4, 1877, and previous Acts :

Due from Commonwealth, Jan. 1, 1886..	\$9,044 57	
	<hr/>	\$9,044 57

The same amount is due from the Commonwealth, Jan. 1, 1887.

STATE AID.

For Disabled Soldiers and Sailors and their Families, and the Families of Deceased Soldiers and Sailors, under an Act of the Legislature of the Commonwealth, Chapter 301, approved April 30, 1879:

Balance undrawn, Jan. 1, 1886.....	\$11,235 07	
	\$11,235 07	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF STATE AID:

From Commonwealth, for re-imbursement of State Aid for 1885.....	\$9,910 25	
Sundry persons. for overdraft as follows:		
William A. Bromley.....	4 00	
Edward Burns.....	4 50	
John Briggs, Jr.....	2 00	
Albert Carney.....	4 00	
William Cross.....	3 00	
Mary Donnelly.....	4 00	
Fred A. Gale.....	8 00	
John Gardon.....	4 00	
John Gordon.....	4 00	
Wellington Greenleaf.....	4 00	
William E. Hirsch.....	4 00	
William E. Hirst.....	8 00	
William Jefferson.....	4 00	

Amounts carried forward.....	\$9,967 75	\$11,235 07
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Amounts brought forward..... \$9,967 75 \$11,235 07

Received into the TREASURY ON
ACCOUNT OF STATE AID:

From Sundry persons, for overdraft, as
follows:

George A. Johnson.....	4 00	
John H. Keith.....	4 00	
John Lawless.....	4 00	
John L. Mellen.....	4 50	
John Morgan.....	6 00	
John H. McDonough.....	2 00	
Elisha McKenney.....	4 00	
John McInley.....	4 00	
John J. O'Brien.....	4 00	
Edwin P. Pearson.....	4 00	
John Purcell.....	4 00	
Patrick Quinn.....	4 00	
Daniel B. Richardson.....	4 00	
Michael Smith.....	4 00	
John Wood.....	3 00	
Joseph B. Whitney.....	4 00	
		10,031 25
		<u>\$21,266 32</u>

EXPENDITURES.

Paid Sundry persons for aid in 1886....	\$10,119 75	
Whole expenditure for the year.....		\$10,119 75
Balance undrawn Jan. 1, 1887.....		11,146 57
		<u>\$21,266 32</u>

AID FOR INDIGENT SOLDIERS AND SAILORS.

For Indigent Soldiers and Sailors, under
Chapter 252 of the Acts of the
Legislature of the Commonwealth,
Approved April 23, 1879 :

Balance undrawn Jan. 1, 1886.....	\$5,441 65	
Appropriated and assessed in 1886.....	3,000 00	
		\$8,441 65

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF AID FOR IN-
DIGENT SOLDIERS AND
SAILORS :

From Commonwealth for re-imburse-
ment of aid for Indigent
Soldiers and Sailors for 1885, \$4,120 50

Sundry persons, for overdraft as
follows :

A. J. Burbank.....	20 00
James H. Bryant.....	4 00
Thomas Conley.....	4 00
John Campbell.....	10 00
Daniel Crowley.....	6 00
Charles Campbell.....	32 00
John Curtin.....	6 00
Michael Daley.....	8 00
Michael Donlon.....	8 00

<i>Amounts carried forward.....</i>	\$4,218 50	\$8,441 65
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<i>Amounts brought forward</i>	\$4,218 50	\$8,441 65
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Received into the TREASURY, ON
ACCOUNT OF AID FOR IN-
DIGENT SOLDIERS AND
SAILORS :

From Sundry persons, for overdraft, as
follows :

John Hanafin.....	8 00	
W. W. Hazard.....	8 00	
Edwin B. Lovejoy.....	8 00	
Michael Sheridan.....	20 00	
Patrick Shien.....	10 00	
James Sands.....	12 00	
Thomas Tulley, Jr.....	10 00	
Matthew Ward.....	5 00	
	<hr/>	4,299 50
		<hr/>
		\$12,741 15
		<hr/>

EXPENDITURES.

Paid Sundry persons for aid in 1886....	\$8,155 00	
	<hr/>	
Whole expenditure for the year.....		\$8,155 00
Balance undrawn Jan. 1, 1887.....		4,586 15
		<hr/>
		\$12,741 15
		<hr/>

CITY DEBT.

Appropriated and assessed in 1886.....	\$63,340 61	
	<hr/>	\$63,340 61

RECEIPTS.

Received into the TREASURY ON ACCOUNT OF CITY DEBT:

From Commissioners of Sinking Funds, for the amount standing to the credit of the Sinking Fund for the Loan of 1876..	44,509 39	
	<hr/>	44,509 39
		<hr/>
		\$107,850 00
		<hr/>

EXPENDITURES.

Paid on ACCOUNT OF CITY DEBT:

To Commonwealth, a note which ma- tured June 15, 1886.....	\$50,000 00
Lowell Institution for Savings, an instalment on notes dated Jan. 15, 1885.....	3,000 00
Lowell Institution for Savings, an instalment on notes dated Dec. 15, 1883.....	16,200 00
Commissioners of Sinking Funds, an instalment on notes dated July 1, 1884.....	1,650 00
Commissioners of Sinking Funds, an instalment on notes dated Aug. 4, 1884.....	7,500 00
	<hr/>
<i>Amount carried forward</i> ...	\$78,350 00

Amount brought forward..... \$78,350 00

Paid on ACCOUNT OF CITY DEBT:

To Commissioners of Sinking Funds, an instalment on note dated July 24, 1885.....	3,500 00
Commissioners of Sinking Funds, an instalment on notes dated Sept. 19, 1885.....	3,500 00
Sundry persons, bonds which matured May 1, 1886.....	7,500 00
Sundry persons, bonds which matured June 20, 1886.....	10,000 00

*Whole expenditure for the year.....	102,850 00
Balance undrawn Jan. 1, 1887.....	5,000 00

\$107,850 00

* In addition to this amount \$3,000 was paid by Appropriation for Water Works.

INTEREST.

Balance undrawn Jan. 1, 1886.....	\$ 8,712 40	
Appropriated and assessed in 1886.....	60,000 00	
	<hr/>	\$68,712 40

RECEIPTS.

Received into the TREASURY ON ACCOUNT OF INTEREST :

From Sundry persons, interest on taxes	\$3,240 36	
First National Bank, interest on daily balances	3,296 10	
	<hr/>	6,536 46
		<hr/>
		\$75,248 86
		<hr/>

EXPENDITURES.

Paid on ACCOUNT OF INTEREST :

To City Institution for Savings	\$ 1,650 00
Lowell Institution for Savings	30,620 75
Lowell Five Cent Savings Bank	1,625 00
Trustees of Estate of Thomas Nes- mith	1,560 00
Trustees of Estate of Jonathan Tyler	600 00
Sundry persons, on Intercepting Sewer Loan Bonds	9,420 00
Sundry persons, on Sewer Loan Bonds	2,250 00
Sundry persons, on Central Bridge Loan Bonds	4,800 00
	<hr/>
<i>Amount carried forward</i>	<i>\$52,525 75</i>

Amount brought forward..... \$52,525 75

Paid on ACCOUNT OF INTEREST:

Commissioners of Sinking Funds...	5,744 00
Lowell Institution for Savings, on temporary loan.....	3,795 67
Commissioners of Sinking Funds, on temporary loan.....	2,183 10

Whole expenditure for the year.....

\$64,248 52

Balance undrawn Jan. 1, 1887.....

11,000 34

\$75,248 86

NATIONAL BANK TAX.

Assessed on Stocks in National Banks, owned by non-residents, in 1886. . . .	\$15,716 04	
	<hr/>	15,716 04

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF NATIONAL
BANK TAX:

From Commonwealth, on account of tax of 1886.	\$4,199 11	
	<hr/>	\$4,199 11
		<hr/>
		\$19,915 15
		<hr/>

EXPENDITURES.

Paid Commonwealth. on account of tax of 1885.	\$ 44 19	
Commonwealth, on account of tax of 1886.	15,777 55	
	<hr/>	
Whole expenditure for the year.		\$15,821 74
Balance undrawn Jan. 1, 1887.		4,093 41
		<hr/>
		\$19,915 15
		<hr/>

STATE TAX.

Assessed in 1886.....	\$42,855 00	
	<hr/>	\$42,855 00
		<hr/>

EXPENDITURES.

Paid, Commonwealth, State Tax for 1886	\$42,855 00	
	<hr/>	\$42,855 00
		<hr/>

COUNTY TAX.

Assessed in 1886.....	\$25,766 01	
	<hr/>	\$25,766 01
		<hr/>

EXPENDITURES.

Paid County of Middlesex, County Tax for 1886.....	\$25,766 01	
	<hr/>	\$25,766 01
		<hr/>

TAXES.

The amount of Taxes assessed on the Polls, and on the Real and Personal Estate within the City of Lowell for the year 1886, was as follows :

Valuation of, and Tax on, Real and Personal Property.

Valuation.	Rate.	Tax.
Of Real Estate, \$38,876,785 00	Tax \$16.00 per \$1000	\$622,028 56
Personal Estate, 14,319,906 66	" " " "	229,118 51
Total Valuation, \$53,196,691 66		\$851,147 07
Number of Polls, 16,379 at \$2.00 each..		32,758 00
Number of Polls, 34, at 50 cts. each....		17 00
Bank Tax assessed on shares of stock which were not included in the valuation of the City.....		15,716 04
Total amount of Taxes assessed in 1886.		\$899,638 11

Appropriated and Assessed in 1886.

For City Appropriations.....	\$799,940 61
State Tax.....	42,855 00
County Tax.....	25,766 01
National Bank Tax.....	15,716 04
Overlays.....	15,360 45
	\$899,638 11

TAXES.

	Due Jan. 1, 1886, and assessed in '86.	Abated in 1886.	Collected in 1886.	Due Jan. 1, 1887.
Taxes of 1883,	\$ 1,287 73	\$ 1,287 73		
Taxes of 1884,	18,831 91	11,365 64	\$ 6,435 87	\$ 1,030 40
Taxes of 1885,	75,577 54	585 65	51,806 00	23,185 89
Taxes of 1886,	899,638 11	4,142 96	807,707 52	87,787 63
	\$995,335 29	\$17,381 98	\$865,949 39	\$112,003 92

ABATEMENT OF TAXES.

Balance undrawn Jan. 1, 1886.....	\$23,770 96
Overlays assessed in 1886.....	15,360 45
Received of Charles H. Abbott, for tax of 1882.....	90 48
	<hr/> \$39,221 89 <hr/>

ABATEMENTS.

Abated by Assessors, on Taxes of 1883..	\$ 1,287 73
Abated by Assessors, on Taxes of 1884..	11,365 64
Abated by Assessors, on Taxes of 1885..	585 65
Abated by Assessors, on Taxes of 1886..	4,142 96
Abated by Assessors, on Taxes of dif- ferent years, after payment.....	96 21
	<hr/>
Balance undrawn Jan. 1, 1887.....	\$21,743 70
	<hr/> \$39,221 89 <hr/>

TEMPORARY LOAN.

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF TEMPORARY
LOAN:

From Commissioners of Sinking Funds,	\$102,000 00	
Lowell Institution for Savings...	300,000 00	
		<hr/>
		\$402,000 00
		<hr/>

PAYMENTS.

Paid Commissioners of Sinking Funds..	\$102,000 00	
Lowell Institution for Savings....	300,000 00	
		<hr/>
		\$402,000 00
		<hr/>

SINKING FUNDS.

Sinking Fund for the Reduction of the Water Debt.

Appropriated and assessed in 1886.....	\$25,000 00	
		<u>\$25,000 00</u>
Paid Commissioners of Sinking Funds..	\$25,000 00	
		<u>\$25,000 00</u>

Sinking Fund for the Payment of the Loan of 1880.

Appropriated and assessed in 1886.....	\$4,000 00	
		<u>\$4,000 00</u>
Paid Commissioners of Sinking Funds..	\$4,000 00	
		<u>\$4,000 00</u>

City Hall Building Lot Sinking Fund.

Appropriated and assessed in 1886.....	\$7,000 00	
		<u>\$7,000 00</u>
Paid Commissioners of Sinking Funds..	\$7,000 00	
		<u>\$7,000 00</u>

Aiken Street Sinking Fund.

Appropriated and assessed in 1886.....	\$16,000 00	
	<hr/>	
		\$16,000 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$16,000 00	
	<hr/>	
		\$16,000 00
		<hr/>

Sinking Fund for the High Service Water Supply.

Appropriated and assessed in 1886.....	\$1,800 00	
	<hr/>	
		\$1,800 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$1,800 00	
	<hr/>	
		\$1,800 00
		<hr/>

Sinking Fund for the Payment of the Loan of 1882.

Appropriated and assessed in 1886.....	\$2,500 00	
	<hr/>	
		\$2,500 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$2,500 00	
	<hr/>	
		\$2,500 00
		<hr/>

Sinking Fund for New Buildings at City Farm.

Appropriated and assessed in 1886.....	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>

Central Bridge Sinking Fund.

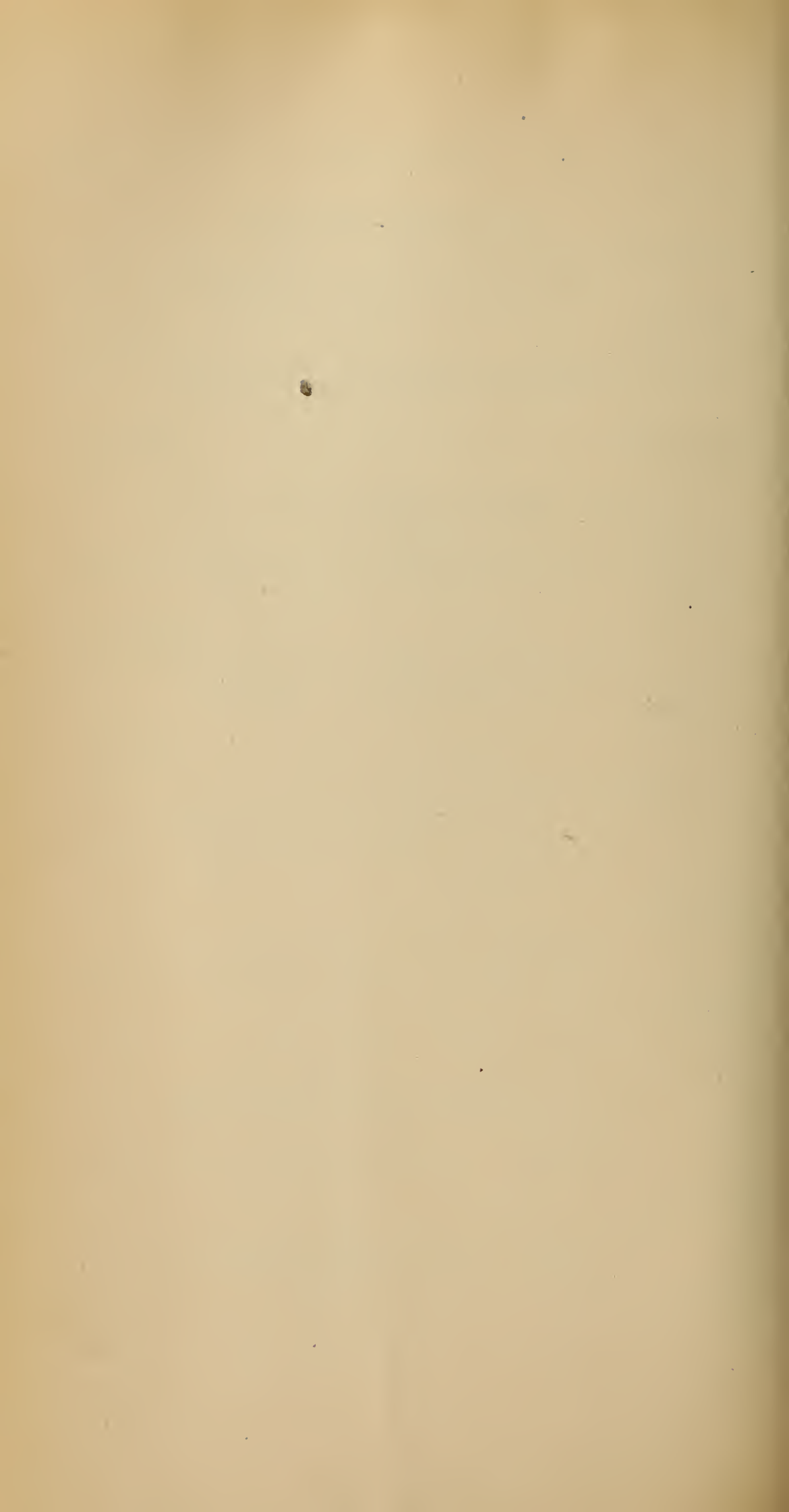
Appropriated and assessed in 1886.....	\$9,600 00	
	<hr/>	
		\$9,600 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$9,600 00	
	<hr/>	
		\$9,600 00
		<hr/>

Intercepting Sewer Fund.

Appropriated and assessed in 1886.....	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>

Paid Commissioners of Sinking Funds..	\$5,000 00	
	<hr/>	
		\$5,000 00
		<hr/>



FUND FOR THE REDUCTION OF THE ORDINARY CITY DEBT.

RECEIPTS.

From Commonwealth, on account of Corporation tax of 1885...	\$ 3,664 77	
Commonwealth, on account of Corporation tax of 1886....	42,620 08	
	<hr/>	\$46,284 85

PAYMENTS.

Paid Commissioners of Sinking Funds..	\$ 3,664 77	
Balance undrawn Jan. 1, 1887.....	42,620 08	
	<hr/>	46,284 85

SINKING FUNDS.

The value of the several Sinking Funds
 Jan. 1, 1887, which apply to the
 reduction of the Water Debt,
 as reported by the Commission-
 ers of Sinking Funds, is as fol-
 lows :

City of Lowell Water Loan Sinking Fund	\$508,209 11	
Sinking Fund for High Service Water Supply	9,785 31	
	<hr/>	\$517,994 42

The value of the several Sinking Funds
 Jan. 1, 1887, which apply to the
 reduction of the ordinary City
 Debt, as reported by the Com-
 missioners of Sinking Funds, is
 as follows :

City Hall Building Lot Sinking Fund	\$56,437 19	
Sinking Fund for the payment of the Loan of 1880	26,716 64	
Aiken Street Sinking Fund	87,438 13	
Sinking Fund for the payment of the Loan of 1882	10,585 76	
Sinking Fund for New Buildings at City Farm	21,114 03	
Central Bridge Sinking Fund	40,567 02	

<i>Amounts carried forward</i>	\$242,858 77	\$517,994 42
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<i>Amounts brought forward</i>	\$242,858 77	\$517,994 42
Intercepting Sewer Fund.....	21,123 71	
Fund for the Payment of the Ordinary City Debt.....	105,292 09	
	<hr/>	\$369,274 57
		<hr/>
Total value of Sinking Funds Jan. 1, 1887		\$887,268 99
		<hr/>
		<hr/>
The value of the Hapgood Wright Centennial Trust Fund, Jan. 1, 1887.....	\$1,681 15	
	<hr/>	\$1,681 15
		<hr/>
		<hr/>

CARNEY MEDAL FUND.

* Received of James G. Carney, Esq., in 1858 and 1859, the amount of two hundred dollars, which is to re- main a perpetual debt of the City forever; the interest to be ap- plied in payment for the "Carney Medals" to the departments of the High School (annually).....			\$200 00	
			<hr/>	\$200 00
Undrawn Jan. 1, 1887.....				<hr/> \$200 00

* One hundred dollars was donated Aug. 24, 1858, and accepted by the City Council Sept. 14, 1858, and one hundred dollars additional, July 16, 1859, and accepted July 26, 1859. For the information of the citizens of Lowell, the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found.

DUE FROM THE CITY ON WATER LOAN.

December 31, 1886.

Date of Notes and Bonds.	To Whom Payable.	Amount.	Per Cent.	Security.	Interest, when due.	Annual Interest.	Notes and Bonds When Due.
1870, Nov. 1,	Merchants National Bank	\$500,000.00	6	Bonds,	May 1 and Nov. 1,	\$30,000.00	1890, Nov. 1.
1870, Nov. 1,	Railroad National Bank	150,000.00	6	Bonds,	May 1 and Nov. 1,	9,000.00	1890, Nov. 1.
1870, Nov. 1,	City Institution for Savings	100,000.00	6	Bonds,	May 1 and Nov. 1,	6,000.00	1890, Nov. 1.
1870, Nov. 1,	Mechanics Savings Bank	50,000.00	6	Bonds,	May 1 and Nov. 1,	3,000.00	1890, Nov. 1.
1870, Nov. 1,	Lowell Five Cent Savings Bank	46,000.00	6	Bonds,	May 1 and Nov. 1,	2,760.00	1890, Nov. 1.
1870, Nov. 1,	Worcester Co. Institution for Savings	30,000.00	6	Bonds,	May 1 and Nov. 1,	1,800.00	1890, Nov. 1.
1870, Nov. 1,	Marlborough Sav. Bank, Marlborough	10,000.00	6	Bonds,	May 1 and Nov. 1,	600.00	1890, Nov. 1.
1870, Nov. 1,	Lowell Water Loan Sinking Fund	4,000.00	6	Bonds,	May 1 and Nov. 1,	240.00	1890, Nov. 1.
1870, Nov. 1,	William Shepard	227,000.00	6	Bonds,	May 1 and Nov. 1,	13,620.00	1890, Nov. 1.
1870, Nov. 1,	Brewster, Sweet & Co.	160,000.00	6	Bonds,	May 1 and Nov. 1,	9,600.00	1890, Nov. 1.
1870, Nov. 1,	G. T. Williams	8,000.00	6	Bonds,	May 1 and Nov. 1,	480.00	1890, Nov. 1.
1870, Nov. 1,	R. L. Day & Cobb	5,000.00	6	Bonds,	May 1 and Nov. 1,	300.00	1890, Nov. 1.

1870, Nov. 1,	Frederick Bailey	3,000.00	6	Bonds,	May 1 and Nov. 1,	180.00	1890, Nov. 1.
1870, Nov. 1,	E. G. Woodman	2,000.00	6	Bonds,	May 1 and Nov. 1,	120.00	1890, Nov. 1.
1870, Nov. 1,	Lucian H. Reid	2,000.00	6	Bonds,	May 1 and Nov. 1,	120.00	1890, Nov. 1.
1870, Nov. 1,	John F. Kimball	1,600.00	6	Bonds,	May 1 and Nov. 1,	60.00	1890, Nov. 1.
1870, Nov. 1,	Weld Spalding	1,000.00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870, Nov. 1,	James Harper	1,000.00	6	Bonds,	May 1 and Nov. 1,	60.00	1890, Nov. 1.
1871, May 1,	Lowell Institution for Savings . . .	200,000.00	6	City's Note,	May 1 and Nov. 1,	12,000.00	1891, May 1.
1873, June 14,	Lowell Institution for Savings . . .	100,000.00	6 $\frac{6}{16}$	City's Note,	June 14 and Dec. 14,	6,600.00	1893, June 14.
1874, Oct. 14,	City Institution for Savings	50,000.00	6 $\frac{1}{2}$	City's Note,	Apr. 14 and Oct. 14,	3,250.00	1894, Oct. 14.
1874, Nov. 12,	Lowell Institution for Savings . . .	100,000.00	6 $\frac{1}{2}$	City's Note,	May 12 and Nov. 12,	6,500.00	1894, Nov. 12.
1881, Nov. 1,	Blake Bros. & Co. (15 notes, \$5,000 each)	75,000.00	4	City's Notes,	May 1 and Nov. 1,	3,000.00	1911, Nov. 1.
1885, Dec. 3,	Commissioners of Sinking Funds . .	12,000.00	3 $\frac{1}{2}$	City's Notes,	June 3 and Dec. 3,	4,200.00	1887, Dec. 3. (\$3,000.00)*
		<u>\$1,837,000.00</u>				<u>\$109,770.00</u>	

* This amount to be paid from the Appropriation for Water Works.

NOTES AND BONDS DUE FROM THE CITY.

December 31, 1886.

Date of Notes.	To WHOM PAYABLE.	Amount.	Per Cent.	Interest, when due.	Interest due in 1887.	Notes and Instalments, when due.
1862, Nov. 3,	City Institution for Savings . .	\$ 30,000.00	5½	May 3 and Nov. 3,	\$ 1,650.00	1887, Nov. 3.
*1871, Mar. 6,	Bequest of Thomas Nesmith . .	25,000.00	6	March 6 and Sept. 6,	1,500.00	Perpetual Debt.
†1871, Apr. 10,	Bequest of Thomas Nesmith . .	1,000.00	6	April 10 and Oct. 10,	60.00	Perpetual Debt.
1874, Aug. 7,	Lowell Institution for Savings .	100,000.00	6½	Feb. 7 and Aug. 7,	6,500.00	1894, Aug. 7.
1874, Nov. 25,	Lowell Five Cent Savings Bank .	25,000.00	6½	May 25 and Nov. 25,	1,625.00	1894, Nov. 25.
‡1878, May 10,	Bequest of Jonathan Tyler . .	10,000.00	6	May 10 and Nov. 10,	600.00	Perpetual Debt.
1880, Jan. 2,	Lowell Institution for Savings .	85,300.00	4¾	Jan. 2 and July 2,	4,051.75	1890, Jan. 2.
1880, Mar. 25,	Lowell Institution for Savings .	50,000.00	4 ²⁹ / ₁₀₀	March 25 and Sept. 25,	2,145.00	1890, March 25.
1881, Dec. 1,	Lowell Institution for Savings .	5,000.00	4	June 1 and Dec. 1,	200.00	1891, Dec. 1.
1882, May 1,	Lowell Institution for Savings .	195,000.00	4	May 1 and Nov. 1,	7,800.00	1892, May 1.
1882, June 9,	Lowell Institution for Savings .	60,000.00	4	June 9 and Dec. 9,	2,400.00	1892, June 9.
1882, Sept. 1,	Lowell Institution for Savings .	30,000.00	4	March 1 and Sept. 1,	1,200.00	1892, Sept. 1.
1882, Oct. 2,	Perkins, Dupee & Co. (bonds) .	50,000.00	4	April 2 and Oct. 2,	2,000.00	1902, Oct. 2.

1882, Nov. 1,	Brewster Bassett & Co. (bonds) .	120,000.00	4	May 1 and Nov. 1,	4,800.00	1892, Nov. 1.
1883, Apr. 2,	Perkins, Dupee & Co. (bonds) .	25,000.00	4	April 2 and Oct. 2,	1,000.00	1903, April 2.
1883, Apr. 2,	Perkins, Dupee & Co. (bonds) .	69,000.00	4	April 2 and Oct. 2,	2,760.00	1903, April 2.
1883, May 1,	Perkins, Dupee & Co. (bonds) .	52,500.00	4	May 1 and Nov. 1,	1,950.00	1887, May 1, \$7,500.00.
1883, June 20,	Perkins, Dupee & Co. (bonds) .	*110,000.00	4	June 20 and Dec. 20,	3,900.00	1887, June 20, \$15,000.00.
1883, Dec. 15,	Lowell Institution for Savings .	59,500.00	4	June 15 and Dec. 15,	2,380.00	1887, Dec. 15, \$8,500.00.
1883, Dec. 15,	Lowell Institution for Savings .	53,900.00	4	June 15 and Dec. 15,	2,156.00	1887, Dec. 15, \$7,700.00.
1884, July 1,	Commissioners of Sinking Funds,	13,200.00	4	Jan. 1 and July 1,	528.00	1887, July 1, \$1,650.00.
1884, Aug. 4,	Commissioners of Sinking Funds,	60,000.00	4	Feb. 4 and Aug. 4,	2,400.00	1887, Aug. 4, \$7,500.00.
1885, Jan. 15,	Lowell Institution for Savings .	27,000.00	4	Jan. 15 and July 15,	1,020.00	1887, Jan. 15, \$3,000.00.
1885, July 24,	Commissioners of Sinking Funds,	31,500.00	3½	Jan. 24 and July 24,	1,102.50	1887, July 24, \$3,500.00.
1885, Sept. 19,	Commissioners of Sinking Funds.	18,000.00	3½	March 19 and Sept. 19,	630.00	1887, Sept. 19, \$2,000.00.
1885, Sept. 19,	Commissioners of Sinking Funds,	13,500.00	3½	March 19 and Sept. 19,	472.50	1887, Sept. 19, \$1,500.00.
Amount of City Debt (ordinary),		\$1,325,400.00		Int. on ordinary City Debt,	\$57,070.75	
Amount of Water Loans . . .		1,837,000.00		Int. on Water Loan,	109,770.00	
Total amount of City Debt, . .		\$3,162,400.00		Total Int. on City Debt,	\$166,840.75	

* Interest on the same (for the poor).

† Interest on the same (High Street Church)

‡ Interest on the same (for the poor).

* Of this amount \$5,000 became due June 20, 1886, and interest on the same ceased at that date.

DEBTS DUE THE CITY.

For Taxes of 1884.....	\$ 1,030 40	
Taxes of 1885.....	23,185 89	
Taxes of 1886.....	87,787 63	
Sidewalk assessments.....	7,019 14	
Sewer assessments.....	4,083 78	
Water rates, service pipes, etc.....	17,918 56	
State Aid.....	9,998 75	
Aid for Indigent Soldiers and Sailors,	3,988 00	
Rent of Armories.....	800 00	
Rent of Police Court room.....	750 00	
Book Accounts.....	1,514 44	
	<hr/>	\$158,076 59

REAL ESTATE OWNED BY THE CITY.

City Government Building.....	\$ 83,000 '00
Huntington and Jackson Halls.....	40,000 00
Market House.....	60,000 00
City Scales.....	1,000 00
High School-house, on Anne and Kirk Streets.....	47,000 00
Bartlett School-house, on Clark Street.....	18,000 00
Butler School-house, on Gorham Street.....	50,000 00
Colburn School-house, on Lawrence Street.....	18,000 00
Edson School-house, on Highland Street.....	22,000 00
Franklin School-house, on Branch Street.....	20,000 00
Green School-house, on Merrimack Street.....	105,000 00
Moody School-house, on East Merrimack Street.....	18,000 00
Mann School-house, on Lewis Street.....	18,000 00
Varnum School-house, on Myrtle Street.....	28,320 98
Highland School-house, on Pine Street.....	45,000 00
Pawtucket School-house, on Mammoth Road.....	53,000 00
Primary School-house, on Powell Street.....	7,000 00
Primary School-house, on Powell Street.....	5,000 00
Primary School-house, on Elliott Street.....	10,000 00
Primary School-house, on Church Street.....	6,500 00
Primary School-house, on School Street.....	6,000 00
Primary School-house, on Pond Street.....	5,000 00
Primary School-house, on High Street.....	9,000 90
Primary School-house, on Carter Street.....	5,000 00
Primary School-house, on Charles Street.....	3,500 00
Primary School-house, on Fayette Street.....	3,500 00
Primary School-house, on Rock Street.....	3,000 00
Primary School-house, on Cabot Street.....	3,500 00
Primary School-house, on West Sixth Street.....	7,000 00
Primary School-house, on River Street.....	5,000 00
Primary School-house, on Ames Street.....	7,000 00
Primary School-house, on Tenth Street.....	7,200 00
Primary School-house, on Cheever Street.....	3,200 00

<i>Amount carried forward</i>	\$722,720 98
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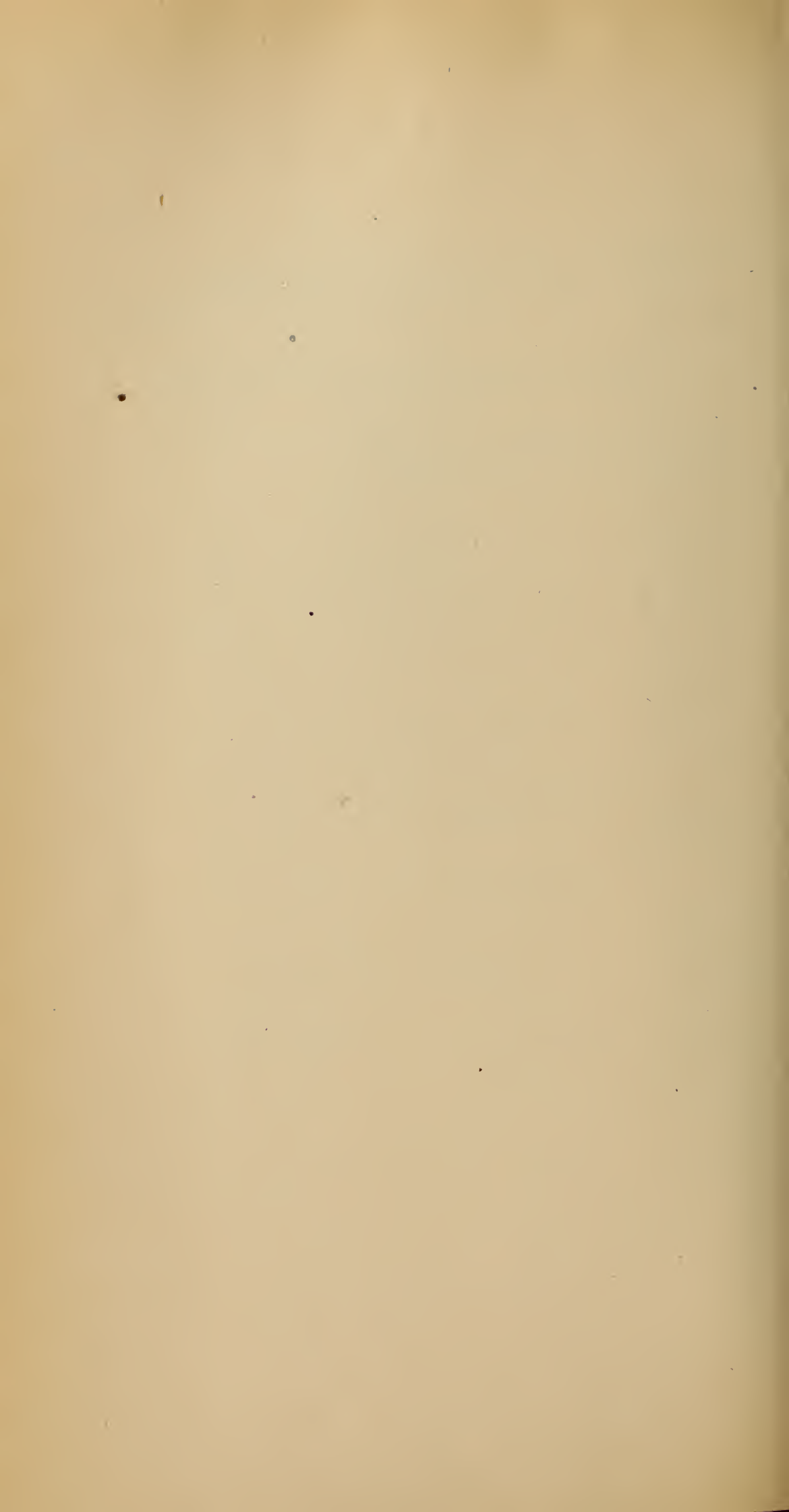
<i>Amount brought forward</i>	\$722,720 98
Primary School-house, on London Street.....	4,000 00
Primary School-house, on Chapel Street.....	4,500 00
Primary School-house, on Central Street.....	12,000 00
Primary School-house, on Howard Street.....	5,000 00
Primary School-house, on Worthen Street.....	25,000 00
Primary School-house, on Lyons Street.....	20,000 00
Primary School-house, on Dover Street.....	6,500 00
Primary School-house, on Common Street.....	19,000 00
Primary School-house, on Agawam Street.....	7,200 00
Primary School-house, on Grand Street.....	5,500 00
Primary School-house, on Varnum Avenue.....	1,000 00
Primary School-house, on Mammoth Road.....	3,500 00
Primary School-house, on Kirk Street.....	20,000 00
Primary School-house, at Middlesex Village.....	3,000 00
Primary School-house, on Weed Street.....	9,994 31
Hose Carriage-house, on Fayette Street.....	4,000 00
Hose Carriage-house, on Fletcher Street.....	14,000 00
Hose Carriage-house, on Central Street.....	4,000 00
Hose Carriage-house, on Warren Street.....	3,500 00
Engine-house, on Gorham Street.....	12,000 00
Engine-house, on Lincoln Street.....	500 00
Engine-house and Ward-room, on Branch Street.....	18,000 00
Engine-house and Ward-room, on Fourth Street.....	13,000 00
Chemical engine-house, on Merrimack Street.....	4,500 00
Engine-house, Hook and Ladder House, Ward-room, Carpenters' shop, and Armories on Middle Street,	34,500 00
City Farm and Buildings.....	95,000 00
Land and Buildings on Fletcher Street.....	3,500 00
Land and Buildings on Fletcher, Cross, and Lagrange Streets, and Broadway.....	55,000 00
Public Landing in rear of Market House.....	1,200 00
Lot of land on Chelmsford Street.....	1,600 00
Lot of land on Fletcher and Whiting Streets.....	1,400 00
Lot of land on First Street.....	190 00
Lot of land on Middle Street.....	14,000 00
Lot of land on Tenth Street.....	5,000 00
North Common.....	112,900 00
South Common.....	224,800 00
Mount Vernon Park.....	2,000 00
Belvidere Park.....	10,000 00
Wilson Park.....	1,600 00
City Hall Building Lot.....	100,000 00
	<hr/>
	\$1,608,105 29

WATER WORKS.

The Real Estate and Personal Property belonging to
the City, occupied and used by the Water Works,
net cost to Jan. 1, 1887..... \$2,384,572 21

BURIAL GROUNDS OWNED BY THE CITY.

No. 1 Burial Ground, on School Street.
No. 2 Burial Ground, on Gorham Street.
Edson Cemetery, on Gorham Street.



REAL AND PERSONAL PROPERTY OWNED BY THE CITY.

Real Estate.....	\$1,608,105 29
Water Works, net cost to Jan. 1, 1887.....	2,384,572 21
Personal property in care of Superintendent of Schools	20,000 00
Personal property in care of Superintendent of Streets, belonging to Streets.....	11,719 29
Personal property in care of Superintendent of Streets, belonging to Sewers and Drains....	3,125 90
Personal Property in care of City Engineer.....	600 00
Personal Property in care of Superintendent of In- stitution at City Farm.....	16,711 65
Personal Property at Wood-yard.....	4,915 75
Personal property in care of Chief of Police.....	29,000 00
Personal property in care of Chief Engineer of Fire Department.....	119,850 00
Personal property in care of Superintendent of Street Lights	26,000 00
Personal property in care of Librarian of City Library	37,000 00
Personal property in care of Board of Health.....	5,112 50
Personal property in care of Sealer of Weights and Measures.....	250 00
Personal property in care of Superintendent of Public Buildings, not mentioned below.....	1,277 75
Personal property in care of Superintendent of Edson Cemetery	264 00
Furniture in City Hall and in Huntington and Jack- son Halls.....	5,000 00
Furniture in School-houses.....	12,000 00
Bell on High Street Church.....	500 00
Clock on High Street Church.....	500 00
Debts due the City.....	158,076 59
Cash in Treasury.....	20,422 64

\$4,465,003 57

COST OF SEWERS LAID IN 1886.

In Aiken Avenue, from Conduit Avenue to Cumberland Road.....	\$4,917 97
Chester Street, from Westford Street, about two hundred and ten feet northerly.....	247 83
Concord Street, from the terminus of the sewer formerly laid in said street, to a point opposite the premises of James Gookin.....	900 55
Central Street, from a point near Union Street, to a point opposite the premises of John J. Donovan.....	1,233 51
Congress and Robinson Streets, from the Intercepting sewer to a point opposite the Premises of Aaron Jacobs in Congress Street, and from Congress Street two hundred and sixty-three feet westerly, in Robinson Street (unfinished)	705 97
High Street, from Boylston Street, to a point fifty feet north of Porter Street.....	1,309 74
Howland Court and Mammoth Road, from the sewer in Second Avenue, through Mammoth Road and Howland Court, to a point near the westerly end of said court.....	491 94
Kirk Street, from the sewer in Merrimack Street about one hundred and forty feet easterly..	1,375 38
Ludlam Street, from the sewer in Aiken Avenue to Palmer Street.....	1,294 13
Middlesex Street, from the sewer in Walker Street to a point opposite the premises of Mrs. H. M. Spalding.....	693 62
Middlesex Street, from the terminus of the sewer formerly laid to a point opposite the premises of H. E. Hill.....	1,045 20
Mason Street, from the sewer in Powell Street to South Loring Street.....	7,809 35
<i>Amount carried forward.....</i>	<u>\$22,025 19</u>

<i>Amount brought forward</i>	\$22,025 19
In Madison Street, from the sewer formerly laid in said street to a point opposite the premises of John O'Day.....	163 79
Royal Street, from the sewer in Westford Street to a point opposite No. 23 on said street (begun in 1885).....	1,443 56
Robbins Street, from the sewer formerly laid in said street to a point near Pine Street.....	994 01
Rogers street, from the sewer in Concord Street to Clay Street.....	2,119 76
Stevens Street, from the sewer formerly laid in said street, to a point opposite the premises of A. W. Hunking.....	643 43
Stevens Street, from the sewer in said street, op- posite premises of A. W. Hunking, to a point opposite No. 267 on said street.....	702 02
South Loring, from the sewer in Mason Street to a point one hundred and twenty-five feet south of Liberty Street.....	1,597 54
South Loring, from the sewer in Mason Street to a point near D street	390 56
Thorndike Street, from Middlesex Street sewer to Pawtucket Canal (overflow).....	3,135 00
Catch Basins.....	1,716 68
	<hr/>
	\$34,931 54

RENTS OF BUILDINGS OWNED BY THE CITY.

	Per Annum.
To Commonwealth, rooms for Armories.....	\$ 800 00
County of Middlesex, Police Court Rooms.....	750 00
Talbot Dyewood and Chemical Co., store and cellar in Market House Building.....	1,200 00
J. S. Anderson, store in City Hall Building.....	900 00
J. H. Guillet, store in City Hall Building.....	900 00
Lowell Water Works, office in City Hall Build- ing.....	900 00
Carleton & Hovey, store in City Hall Building..	1,200 00
John Gillon, tenement on Moody Street.....	108 00
F. J. O'Rourke, tenement on Moody Street.....	108 00
Michael J. McDermott, tenement on Colburn Street.....	120 00
James M. Peirce, tenement on Colburn Street...	192 00
Warren N. Roberts, tenement on Colburn Street,	192 00
William N. Smith, tenement on Colburn Street..	192 00
Moses W. Stockman, tenement on Merrimack Street.....	192 00
John F. Cosgrove, tenement on Merrimack Street.....	192 00
Michael Campion, tenement on Merrimack Street,	96 00
Cornelius Regan, tenement on Merrimack Street,	96 00
William Charlton, tenement on Merrimack Street.....	96 00
Mrs. Bohonan, tenement on Merrimack Street...	96 00
Antoine Bernard, tenement on Merrimack Street,	96 00
Hattie Queenan, tenement on Merrimack Street.	96 00
	<hr/> \$8,522 00 <hr/>

LANDS AND BUILDINGS FOR WHICH THE CITY PAYS RENT.

To Boston & Lowell R. R. Co., for ground rent for Huntington and Jackson Halls.....	\$ 475 00
Trustees of A. H. Hosford, for rent of rooms for City Library.....	1,200 00
Edson Block, for rent of rooms for Free Reading Room	600 00
Clarence G. Coburn, for rent of Building for horse carriage in Pawtucketville.....	240 00
Proprietors of Locks and Canals on Merrimack River, for rent of land on Cheever and Aiken Streets.....	21 00
Lowell Institution for Savings, for rent of room for Board of Health.....	200 00
	<hr style="border-top: 1px solid black;"/> \$2,736 00 <hr style="border-top: 1px solid black;"/>

DAVID CHASE,
Auditor.

ACCOUNT OF CITY TREASURER AND COLLECTOR OF TAXES FOR 1886.

CITY OF LOWELL,
OFFICE OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Jan. 1, 1887.

TO THE CITY COUNCIL:

Gentlemen:—I have the honor to submit herewith an account of the receipts and payments for the financial year 1886.

Respectfully submitted,

VAN B. SLEEPER,
City Treasurer and Collector of Taxes.

DR. City of Lowell in Account with Van B. Sleeper,

To cash paid on account of —

Schools.....	\$168,888	18	
School Houses.....	42,824	87	
Streets.....	112,752	80	
Reserved Fund.....	51,911	90	
Paupers.....	68,659	50	
Police.....	68,624	20	
Fire Department.....	64,712	98	
Sewers.....	49,601	40	
Intercepting Sewer.....	1,273	75	
Commons.....	8,777	44	
Printing.....	2,760	63	
Lighting.....	44,315	32	
Public Buildings.....	10,625	18	
City Hall Building Lot.....	625	38	
Library.....	15,290	38	
Health.....	18,350	70	
Water Works.....	169,105	22	
Taylor Street.....	1,937	84	
Salaries.....	18,166	67	
State Aid.....	10,119	75	
State Aid, Indigent Soldiers and Sailors,	8,155	00	
Water for Hydrants, Fountains and			
Troughs.....	15,675	00	
Interest.....	64,248	52	
Abatement of Taxes.....	96	21	
Temporary Loans.....	402,000	00	
City Debt.....	102,850	00	
State Tax.....	42,855	00	
County Tax.....	25,766	01	
National Bank Tax.....	15,821	74	
City of Lowell, Water Loan Sink'g Fund,	25,000	00	
Sinking Fund, Loan of 1880.....	4,000	00	
City Hall Building Lot, Sinking Fund,	7,000	00	
Aiken Street, Sinking Fund.....	16,000	00	
High Service Water Loan Sink'g Fund,	1,800	00	
Sinking Fund, Loan of 1882.....	2,500	00	
New Buildings at City Farm, Sinking			
Fund.....	5,000	00	
Central Bridge, Sinking Fund.....	9,600	00	
Intercepting Sewer, Sinking Fund....	5,000	00	
Sinking Fund for Reduction of Ordinary City Debt.....	3,664	77	
			\$1,686,356 34
Cash Balance Dec. 31, 1886.....			20,422 64
			<u>\$1,706,778 98</u>

Collector of Taxes for the Financial Year 1886.

CR.

By cash received on account of —

Cash Balance, Jan. 1, 1886.....		\$	19,503 11
Schools	\$	721 11	
School Houses.....		538 88	
Streets.....		18,181 57	
Reserved Fund.....		68,092 81	
Paupers		8,848 27	
Police.....		11,744 42	
Fire Department.....		4,938 59	
Sewers.....		5,858 39	
Intercepting Sewer.....		967 39	
Commons.....		540 67	
Printing		13 75	
Lighting.....		32 50	
Public Buildings.....		3,641 73	
City Hall Building Lot.....		1,968 00	
Library		2,630 31	
Health.....		4,659 00	
Water Works.....		169,998 05	
State Aid.....		10,031 25	
State Aid, Indigent Soldiers and Sailors,		4,299 50	
Interest.....		6,536 46	
Abatement of Taxes.....		90 48	
Temporary Loans.....		402,000 00	
City Debt.....		44,509 39	
National Bank Tax.....		4,199 11	
Taxes of 1884.....		6,435 87	
Taxes of 1885.....		51,806 00	
Taxes of 1886.....		807,707 52	
Sinking Fund for the Reduction of the			
Ordinary City Debt.....		46,284 85	
			1,687,275 87

\$1,706,778 98

IN BOARD OF ALDERMEN, Jan. 26th, 1887.

Read and referred to the Joint Committee on accounts.

Sent down for concurrence.

DAVID W. O'BRIEN,
City Clerk.

IN COMMON COUNCIL, Jan. 26th, 1887.

Read and referred to the Joint Committee on accounts in concurrence.

WILLIAM J. COUGHLIN,
Clerk.

REPORT OF COMMISSIONERS OF SINKING FUNDS.

TO THE CITY COUNCIL :

Gentlemen :—The Commissioners of Sinking Funds have the honor to submit the following report of the condition of the several Sinking Funds of the City of Lowell, Dec. 31, 1886.

Total increase of Sinking Funds during the year 1886.....		\$70,742 69
The amount of the Sinking Funds which apply to the reduction of the Water Debt, Dec. 31, 1886.....	\$517,994 42	
The amount of the Sinking Funds which apply to the reduction of the Water Debt Dec. 31, 1885 was.....	511,557 96	
Increase of the Sinking Funds which apply to the Water Debt during the year 1886.....		\$6,436 46
Amount of the Sinking Funds which apply to the reduction of the ordinary City Debt, Dec. 31, 1885.....	\$369,274 57	
Amount of the Sinking Funds which apply to the reduction of the ordinary City Debt, Dec. 31, 1886 was.....	304,968 34	
Increase of the Sinking Funds which apply to the reduction of the ordinary City Debt during the year 1886.....		64,306 23
Total increase of the several Sinking Funds of the City of Lowell during the year 1886.....		\$70,742 69

CHAS. M. WILLIAMS.
JAMES C. ABBOTT.
CHAS. C. HUTCHINSON.

Water Loan Sinking Fund Account.

Total amount of this Fund Dec. 31, 1886..... \$508,209 11

RECEIPTS.

Receipts previous to Jan. 1, 1886.....	459,982 43
Cash appropriated by City Council of 1886.....	25,000 00
Interest on investments.....	22,607 00
Interest on daily balances.....	619 68
Payment for notes matured.....	5,000 00
Payment of bond matured.....	2,000 00

Total Receipts..... \$515,209 11

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$439,737 77
Cash paid for securities in 1886.....	19,344 76
Cash on deposit.....	56,126 56

\$615,209 11

Total amount received to Dec. 31, 1886.....	\$515,209 11
Deduct for bonds and notes matured and paid.....	7,000 00

Cost of securities with cash on hand Dec. 31, 1886... \$508,209 11

Cost and character of the securities belonging to
this Fund, Dec. 31, 1886:

One \$1,000 City of Salem bond 5 per cent.....	\$ 1,176 81
One \$1,000 Town of Beverly bond 4 per cent	1,040 23
One \$1,000 City of Lynn bond 5 per cent	1,176 25
One \$27,000 Town of Marshfield note 4 per cent....	27,877 50
One \$26,000 Town of Everett note 7 per cent.....	33,879 43
Four \$1,000 Town of Danvers bond 5 per cent.....	4,722 89
Five \$1,000 City of Cambridge bond 6 per cent.....	5,895 82
One \$1,000 City of Lynn bond 6 per cent.....	1,231 33
Three \$1,000 Town of Marshfield note 4 per cent...	3,068 83

Amount carried forward..... \$80,069 09

<i>Amount brought forward</i>	\$80,069 09
Thirty-three \$1,000 City of Lawrence bond 6 per cent.....	32,846 00
Thirty-seven \$1,000 City of Bangor bond 6 per cent..	38,631 63
Four \$500 City of Bangor bond 6 per cent.....	2,180 00
Four \$1,000 Town of Arlington bond 6 per cent.....	4,572 50
Six \$1,000 City of Chelsea bond 6 per cent.....	6,857 34
One \$1,000 Town of Arlington bond 5 per cent.....	1,084 30
Twelve \$1,000 and three \$10,000 City of Providence bonds 5 per cent.....	49 991 71
Two \$1,000 City of Providence bond 5 per cent.....	2,437 20
Nineteen \$1,000 City of Manchester bond 6 per cent..	21,394 99
Twenty \$500 City of Manchester bond 6 per cent...	11,270 50
One \$1,000 City of Nashua bond 6 per cent.....	1,110 58
One \$200 City of Dover bond 6 per cent.....	217 13
Twelve \$1,000 City of Portland bond 6 per cent.....	12,890 75
Six \$2,000 Town of Stoughton bond 4 per cent.....	12,242 57
Twenty-five \$1,000 Town of Wayland bond 5 per cent.....	25,929 16
One \$5,000 City of Lawrence bond 6 per cent.....	5,764 16
One \$1,000 City of Somerville bond 5 per cent.....	1,072 22
Twenty-three \$500 Town of Pawtucket bond 5 per cent.....	13,010 07
One \$1,000 City of Keene bond 6 per cent.....	1,207 00
One \$5,000 City of Haverhill bond 6 per cent.....	5,626 25
Fifty-seven \$1,000 Lowell bond 6 per cent.....	60,319 98
Two \$1,000 City of Fall River bond 6 per cent.....	2,165 34
Three \$1,000 City of Portsmouth bond 4 per cent...	3,080 00
One \$1,000 City of Newburyport bond 4 per cent....	1,034 00
Two \$1,000 City of Portsmouth bond 6 per cent.....	2,322 00
One \$1,500 City of Portsmouth bond 4 per cent.....	1,568 50
One \$1,000 City of Cambridge bond 5 per cent.....	1,105 84
Two \$500 Town of Wilton bond 6 per cent.....	1,081 33
Two \$1,000 City of Bangor bond 7 per cent.....	2,329 39
Four \$1,000 City of Lewiston bond 5 per cent.....	4,233 33
One \$500 State of New Hampshire bond 6 per cent..	575 00
Three \$1,000 City of Springfield bond 6 per cent....	3,922 50
Five \$1,000 Town of New Haven bond 6 per cent...	5,679 17
Two \$1,000 City of Hartford bond 6 per cent.....	2,261 00
Nine tenth of one City of Lowell note for \$20,000 3 1-2 per cent.....	18,000 00
Four \$3,000 City of Lowell note for \$20,000 3 1-2 per cent.....	12,000 00
	<hr/>
	\$452,082 53
Cash on deposit in First National Bank in Lowell on interest at 3 1-4 per cent. per annum.....	56,126 58
	<hr/>
	\$508,209 11

High Service Sinking Fund Account.

Total amount of this fund Dec. 31, 1886..... \$9,785 31

RECEIPTS.

Receipts previous to Jan. 1, 1886.....	7,695 79
Appropriated by City Council of 1886.....	1,800 00
Interest on investments.....	257 81
Interest on daily balances.....	31 71
City Note matured and paid.....	2,000 00
Total receipts.....	<u>\$11,785 31</u>

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$5,325 81
Cash paid for securities in 1886.....	2,000 00
Cash on deposit.....	4,459 50
	<u>11,785 31</u>
Total amount received to Dec. 31, 1886.....	\$11,785 31
Deduct for note matured and paid.....	2,000 00
Cost of securities with cash on hand Dec. 31, 1886..	<u>\$9,785 31</u>

Cost and character of the securities belonging to this Fund Dec. 31, 1886 :

One \$1,000 Town of Beverley bond 4 per cent.....	\$1,035 55
One \$500 Town of Pawtucket bond 5 per cent.....	569 72
One \$1,000 City of Providence bond 5 per cent.....	1,220 54
Two \$1,000 City of Lowell notes 4 per cent.....	2,000 00
One \$500 City of Lowell notes 4 per cent	500 00
	<u>\$5,325 81</u>
Cash on deposit in First National Bank in Lowell on interest at 3 1-4 per cent per annum.....	4,459 50
	<u>\$9,785 31</u>

Loan of 1876 Sinking Fund.

RECEIPTS.

Cash previous to Jan. 1, 1886.....	\$43,879 74
Interest on daily balances.....	552 64
Cash amount due from City Institution for Savings book, 39,720.....	77 01
	<u>\$44,509 39</u>

PAYMENTS.

Cash transferred to City of Lowell.....	<u>\$44,509 39</u>
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City Hall Building Lot Sinking Fund.

Amount of this fund Dec. 31, 1886..... \$56,437 19

RECEIPTS.

Receipts previous to Jan. 1, 1886.....	\$47,457 01
Amount appropriated by City Council of 1886.....	7,000 00
Interest on investments.....	1,879 43
Interest on daily balances.....	100 75
Payment of notes matured.....	11,000 00
	<u>\$67,437 19</u>

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$36,657 50
Cash paid for securities in 1886.....	11,000 00
Cash on deposit....	19,779 69
	<u>\$67,437 19</u>

Total receipts to Dec. 31, 1886.....	\$67,437 19
Deduct for notes matured and paid.....	11,000 00

Cost of securities with cash on hand Dec. 31, 1886..	<u>\$56,437 19</u>
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Cost and character of the securities belonging to
this Fund Dec. 31, 1886:

Sixteen \$500 Town of Pawtucket 5 per cent. bonds..	\$9,013 05
Four \$1,000 City of Holyoke 7 per cent. bonds.....	4,978 89
Nine \$100 State of New Hampshire 6 per cent. bonds.....	1,085 25
One \$1,000 City of Providence 5 per cent bonds....	1,201 25
Two \$1,000 City of Lowell 6 per cent. bonds.....	2,384 16
<i>Amount carried forward.....</i>	<u>\$18,662 60</u>

<i>Amount brought forward</i>	\$18,662 60
Two \$1,000 City of Springfield 6 per cent. bonds....	2,641 66
One \$1,000 City of Newburyport 4 per cent. bonds..	1,030 00
Six \$1,000 City of Providence 5 per cent. bonds.....	7,323 24
Seven \$1,000 City of Lowell 4 per cent. notes.....	7,000 00
	<hr/>
	\$36,657 50
Cash on deposit in First National Bank in Lowell on interest at 3 1-4 per cent. per annum.....	19,779 69
	<hr/>
	<u>\$56,437 19</u>

Aiken Street Sinking Fund.

Amount of this fund Dec. 31, 1886..... \$87,438 13

RECEIPTS.

Amount received previous to Jan. 1, 1886.....	\$68,654 24
Appropriated by City Council of 1886.....	16,000 00
Interest on investments.....	2,601 66
Interest on daily balances.....	182 23
Payment of note matured.....	19,000 00
	\$106,438 13

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$49,564 76
Cash paid for securities in 1886.....	19,000 00
Cash on deposit.....	37,873 37
	\$106,438 13

Total amount received to Dec. 31, 1886.....	\$106,438 13
Deduct for note matured and paid.....	19,000 00

Cost of securities with cash on hand Dec. 31, 1886.. \$87,438 13

Cost and character of the securities belonging to
this Fund Dec. 31, 1886 :

One \$500 Town of Pawtucket bond 5 per cent.....	\$ 569 72
One \$8,000 Town of Bedford note 7 per cent.....	10,220 00
One \$1,000 City of Cambridge bond 6 per cent.....	1,308 33
Three \$1,000 City of Portland bond 6 per cent.....	3,610 00
	\$15,708 05
<i>Amount carried forward.....</i>	

<i>Amount brought forward</i>	\$15,708 05
One \$500 City of Keene bond 4 per cent.....	525 05
One \$10,000 City of Providence Reg. bond 5 per cent,	12,111 12
One \$1,000 City of Providence bond 5 per cent.....	1,220 54
Two \$500 City of Lowell notes 4 per cent.....	1,000 00
Nineteen \$1,000 City of Lowell notes 4 per cent....	19,000 00
	<hr/>
	\$49,564 76
Cash on deposit in First National Bank at the rate of 3 1-4 per cent. per annum.....	37,873 37
	<hr/>
	<u>\$87,438 13</u>

Ordinary City Debt Sinking Fund.

Total amount of this fund Dec. 31, 1886..... \$105,292 09

RECEIPTS.

Amount received previous to Jan. 1, 1886.....	\$98,286 26
City of Lowell on account of Corporation and National Bank Tax.....	3,664 77
Interest on investments.....	2,956 44
Interest on daily balances.....	384 62
One tenth of City's note due and paid.....	3,500 00
One tenth of City's note due and paid.....	1,500 00
Payment of note matured.....	40,000 00
	<u><u>\$150,292 09</u></u>

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$58,063 30
Cash paid for securities in 1886.....	40,000 00
Cash on deposit in First National Bank.....	52,047 17
Cash on deposit in Mechanics Savings Bank book No. 14,744.....	181 62
	<u><u>\$150,292 09</u></u>

Total amount received to Dec. 31, 1886.....	\$150,292 09
Deduct for notes matured and paid.....	45,000 00
	<u><u>\$105,292 09</u></u>

Cost and character of the securities belonging to
this Fund Dec. 31, 1886 :

One \$1,000 City of Lawrence bond 6 per cent.....	\$1,231 33
One \$500 City of Keene bond 4 per cent.....	525 05
	<u><u>\$1,756 38</u></u>
<i>Amount carried forward.....</i>	

<i>Amount brought forward</i>	\$1,756 38
One \$1,000 City of Newburyport bond 4 per cent....	1,034 00
One \$500 City of Lowell note 4 per cent.....	508 75
One \$500 City of Lowell note 4 per cent.....	500 00
Two \$1,000 Town of Arlington bonds 5 per cent....	2,264 17
Two \$1,000 City of Lowell notes 4 per cent.....	2,000 00
Nine tenth of one City of Lowell note for \$15,000 3½ per cent.....	13,500 00
Nine-tenth of one City of Lowell note for \$35,000 3 per cent	31,500 00
	<hr/>
	\$53,063 30
Cash on deposit in First National Bank at 3¼ per cent.....	52,047 17
Cash on deposit in Mechanics Savings Bank book No. 14,744	181 62
	<hr/>
	<u>\$105,292 09</u>

Loan of 1880 Sinking Fund.

Total amount of this fund Dec. 31, 1886.....	\$26,716 64
--	-------------

RECEIPTS.

Amount received to Jan. 1, 1886.....	\$21,823 44
Appropriated by City Council of 1886.....	4,000 00
Interest on investments.....	776 82
Interest on daily balances.....	116 38
Payment of notes matured.....	12,150 00
	\$38,866 64

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$14,741 80
Cash paid for securities in 1886.....	7,000 00
Cash on deposit in First National Bank.....	17,124 84
	\$38,866 64

Total amount received to Dec. 31, 1886.....	\$38,866 64
Deduct for notes matured and paid.....	12,150 00
	\$26,716 64

Cost and character of the securities belonging to
this Fund Dec. 31, 1886:

One \$3,000 State of Rhode Island bond 6 per cent..	\$3,830 00
Three \$1,000 City of Newton bonds 5 per cent.....	3,542 98
One \$500 Town of Pawtucket bond 5 per cent.....	569 72
One \$1,650 City of Lowell note 4 per cent.....	1,650 00
	\$ 9,591 80
Cash on deposit in First National Bank at 3 1-4 per cent.....	17,124 84
	\$26,716 64

Loan of 1882 Sinking Fund.

Amount of this fund Dec. 31, 1886.....	\$10,585 76
--	-------------

RECEIPTS.

Cash received to Jan. 1, 1886.....	\$7,777 48
Amount appropriated by City Council of 1886.....	2,500 00
Interest on investments.....	250 21
Interest on daily balances.....	58 07
Payment of note matured.....	6,000 00
	\$16,585 76

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$4,650 00
Cash paid for securities in 1886.....	3,000 00
Cash on deposit in First National Bank.....	8,935 76
	\$16,585 76
Total amount received to Dec. 31, 1886.....	\$16,585 76
Deduct for notes matured and paid.....	6,000 00
	\$10,585 76

Cost and character of the securities belonging to this Fund Dec. 31, 1886:

One \$1,650 City of Lowell note 4 per cent.....	\$1,650 00
Cash on deposit in First National Bank at 3 1-4 per cent.....	8,935 76
	\$10,585 76

Central Bridge Sinking Fund.

Total amount of this fund Dec. 31, 1886.....	\$40,567 02
--	-------------

RECEIPTS.

Cash received previous to Jan. 1, 1886.....	\$29,878 19
Amount appropriated by City Council of 1886... ..	9,600 00
Interest on investments.....	974 03
Interest on daily balances.....	114 80
Payment of note matured.....	10,000 00
	\$50,567 02

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$19,000 00
Cash paid for securities in 1886.....	10,000 00
Cash on deposit in First National Bank.....	21,567 02
	\$50,567 02
Total amount received to Dec. 31, 1886.....	\$50,567 02
Deduct for note matured and paid.....	10,000 00
	\$40,567 02

Cost and character of the securities belonging to
this Fund Dec. 31, 1886:

Three \$1,000 City of Lowell, Pawtucket Main Sewer notes 4 per cent	\$3,000 00
Seven \$1,000 City of Lowell, Pawtucket Main Sewer notes 4 per cent.....	7,000 00
Two \$500 City of Lowell, Pawtucket Main Sewer notes 4 per cent.....	1,000 00
<i>Amount carried forward.....</i>	<i>\$11,000 00</i>

<i>Amount brought forward</i>	\$11,000 00
Seven \$1,000 City of Lowell, Pawtucket Main Sewer notes 4 per cent.....	7,000 00
Two \$500 City of Lowell, Pawtucket Main Sewer notes 4 per cent.....	1,000 00
	<hr/>
	\$19,000 00
Cash on deposit in First National Bank at 3 1-4 per cent.....	21,567 02
	<hr/>
	<u>\$40,567 02</u>

Intercepting Sewer Sinking Fund.

Amount of this fund Dec. 31, 1886.....	\$21,123 71
--	-------------

RECEIPTS.

Cash received previous to Jan. 1, 1886.....	\$15,545 86
Interest on investments.....	505 01
Interest on daily balances.....	72 84
Amount appropriated by City Council of 1886.....	5,000 00
Payment of note matured.....	6,000 00
	\$27,123 71

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$9,950 00
Cash paid for securities in 1886.....	5,000 00
Cash on deposit in First National Bank.....	12,173 71
	27,123 71

Total amount received to Dec. 31, 1886.....	\$27,123 71
Deduct for note matured and paid.....	6,000 00
	\$21,123 71

Cost and character of the securities belonging to
this Fund Dec. 31, 1886 :

Three \$1,650 City of Lowell notes 4 per cent.....	\$4,950 00
Four \$1,000 City of Lowell notes 4 per cent.....	4,000 00
	\$ 8,950 00

Cash on deposit in First National Bank at 3 1-4 per cent.....	12,173 71
	\$21,123 71

New Buildings at City Farm Sinking Fund.

Amount of this Fund Dec. 31, 1886..... \$21,114 03

RECEIPTS.

Amount received previous to Jan. 1, 1886.....	\$15,545 86
Appropriated by City Council of 1886.....	5,000 00
Interest on investments.. .. .	505 01
Interest on daily balances.....	63 16
Payment of note matured.....	5,000 00
	\$26,114 03

PAYMENTS.

Cash paid for securities previous to Jan. 1, 1886.....	\$9,950 00
Cash paid for securities in 1886.....	5,000 00
Cash on deposit in First National Bank.....	11,164 03
	\$26,114 03
Total amount received to Dec. 31, 1886.....	\$26,114 03
Deduct for note matured and paid.....	5,000 00
	\$21,114 03

Cost and character of the securities belonging to this Fund Dec. 31, 1886:

Three \$1,650 City of Lowell, Intercepting Sewer notes 4 per cent.....	\$4,950 00
Five \$1,000 City of Lowell, Pawtucket Main Sewer notes 4 per cent	5,000 00
	\$9,950 00
Cash on deposit in First National Bank at the rate of 3 1-4 per cent.....	11,164 03
	\$21,114 03

TO THE CITY COUNCIL OF THE CITY OF LOWELL :

*Gentlemen :—*The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Hapgood Wright Centennial Trust Fund for the financial year ending Dec. 31, 1886.

RECEIPTS.

Amount received to Jan. 1, 1886.....	\$1,603 47
Interest on investments.....	60 00
Interest on deposits.....	17 68
	<hr/>
	\$1,681 15
	<hr/>

PAYMENTS.

Cash paid for securities to Jan. 1, 1886.....	\$1,140 08
Cash on deposit in Lowell Institution for Savings, book No. 54,679.....	169 93
Cash on deposit in City Institution for Savings, book No. 39,419.....	371 14
	<hr/>
	\$1,681 15
	<hr/>

Cost and character of the securities belonging to this Fund Dec. 1, 1886 :

One \$1,000 City of Lawrence bond 6 per cent.....	\$1,140 08
Cash on deposit in Lowell Institution for Savings...	169 93
Cash on deposit in City Institution for Savings.....	371 14
	<hr/>
	\$1,681 15
	<hr/>

CHAS. M. WILLIAMS.
JAMES C. ABBOTT.
CHAS. C. HUTCHINSON.

LOWELL, MASS., February 5, 1887.

I have examined the foregoing statement, and have personally examined the securities therein named, and hereby certify that the statement is a true copy of the Treasurer's books, and that the securities have all been produced and are in the possession of the Commissioners. I have also examined the income derived from the investments and find that it has all been entered upon the Treasurer's books and duly accounted for.

HENRY A. PIPER,

Accountant.

IN BOARD OF ALDERMEN, Feb. 8th, 1887.

Read and referred to the Joint Committee on accounts.

Sent down.

DAVID W. O'BRIEN,
City Clerk.

IN COMMON COUNCIL, Feb. 8th, 1887.

Read and referred to the Joint Committee on accounts.

WILLIAM J. COUGHLIN,
Clerk.

CITY OF LOWELL.

TO THE CITY COUNCIL :

The Joint Committee on Accounts of the City Council of the City of Lowell, to whom was referred the accounts of the City Treasurer and of the Commissioners of Sinking Funds, for the financial year ending Dec. 31, 1886, have attended to the business committed to them, and report :

The Joint Standing Committee on Accounts of the City Council of the City of Lowell for the year 1887, have made with the assistance of Mr. Henry A. Piper, expert accountant, of Boston, a thorough examination of the accounts of the City Treasurer and of the Commissioners on Sinking Funds, for the financial year ending Dec. 31, 1886, and find them to be correct. We herewith submit the report of Mr. Piper, the accountant, all of which is respectfully submitted.

M. J. FLETCHER,
FREDERICK FRYE,
DANIEL MURPHY,
PATRICK CONLON,
ROSWELL M. BOUTWELL,

*Joint Standing Committee of the City Council of the City of Lowell
for the year 1887.*

REPORT OF THE ACCOUNTANT.

LOWELL, FEB. 12, 1887.

TO THE JOINT STANDING COMMITTEE ON ACCOUNTS FOR THE
CITY OF LOWELL:

Gentlemen :—I have made an examination of the books and doings of the City Treasurer for the year ending Dec. 31, 1886, and beg leave to submit the following report:

I have examined the cash book, and verified the footings thereof, and have also examined the vouchers for all disbursements, with the exception of the monthly bill drafts which were examined by your committee.

I find that every payment is supported by a voucher duly approved, and all of them appear to be legitimate and genuine.

I have examined the tax receipts, sewer and sidewalk assessments and water rates, and find the amounts as stated in detail have been duly entered upon the Treasurer's books.

I have balanced the cash of the Treasurer as it stood on February 11th, 1887, and find it to be correct. His books called for a balance in his hands amounting to.....

\$7,666 46

There was on deposit to the credit of the City as shown by the pass book of the First National Bank, which I have had the cashier write up and balance, an amount of.....

\$33,450 95

Amount carried forward

\$33,450 95

<i>Amount brought forward</i>	\$33,450 95
Deducting for checks not yet presented.....	28,276 50
<hr/>	
Leaves amount as shown on the Treasurer's check book	\$5,174 45
Cash in office.....	2,492 01
<hr/>	
	\$ 7,666 46
The total amount received from Liquor Licenses during the year was.....	69,064 00
Of which one-quarter was paid to the State Treas- urer, viz.....	17,266 00
<hr/>	
And the balance, amounting to.....	\$ 51,798 00
Was duly covered into the Treasury.	
The Treasurer's books show that the receipts of moneys during the year have amounted to.....	1,687,275 87
The balance on hand January 1, 1886 was.....	19,503 11
<hr/>	
	\$1,706,778 98
The disbursements during the year have amounted to.....	\$1,686,356 34
<hr/>	
Leaving in the hands of the Treasurer on Dec. 31, 1886	\$20,422 64
I have carefully compared the annual statement submitted to the City Council by the Treasurer, in which is shown in detail the receipts and dis- bursements above named, and hereby certify that it is a true copy of the Treasurer's ledger.	
The Collector's account of Taxes shows as fol- lows, viz:	
Uncollected taxes January 1, 1886,	
For year 1883.....	\$ 1,287 73
For year 1884.....	18,831 91
For year 1885.....	75,577 54
<hr/>	
<i>Amount carried forward</i>	\$95,697 18

<i>Amount brought forward</i>	\$ 95,667 18
Reassessments on account of 1885.....	195 08
Assessments after commitment, 1886.....	6,785 80
Tax Warrant for year 1886.....	898,150 65
Total	<u>\$1,000,828 71</u>

The abatements made in 1886 were,

On account of 1883 taxes.....	\$ 1,287 73
On account of 1884 taxes.....	11,365 64
On account of 1885 taxes.....	780 73
On account of 1886 taxes.....	9,441 30
	<u>\$ 22,875 40</u>

The amount collected in 1886 was,

Of 1884 taxes.....	\$ 6,435 87
Of 1885 taxes.....	51,806 00
Of 1886 taxes.....	807,707 52
	<u>865,949 39</u>

The amount uncollected on Dec. 31,
1886 was,

Of 1884 taxes.....	\$ 1,030 40
Of 1885 taxes.....	23,185 89
Of 1886 taxes.....	87,787 63
	<u>112,003 92</u>
	<u>\$1,000,828 71</u>

As the result of my examination, I report that I found everything in connection with the detail examined by me to be correct, and that to the best of my knowledge and belief, all the income due to the City, has been properly accounted for.

HENRY A. PIPER,

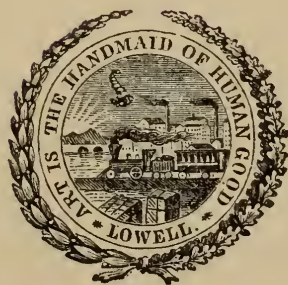
Accountant.

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ANNUAL REPORT
OF THE
DIRECTORS
OF THE
LOWELL CITY LIBRARY,
FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, December 31, 1886.

Read and sent to the Common Council.

SAMUEL M. CHASE, City Clerk.

IN COMMON COUNCIL, December 31, 1886.

Received and read.

DAVID CHASE, Clerk.

Administration of the City Library,
1886.

BOARD OF DIRECTORS.

Ex-officiis. { JAMES C. ABBOTT—Mayor of the City.
JAMES H. CARMICHAEL—President of Com. Council.
GEORGE F. LAWTON—Supt. Public Schools.
WILLIAM G. WARD,
HARRY DUNLAP,
EDWARD ELLINGWOOD,
ARTHUR F. SALMON,
THOMAS C. LEE,
JOHN R. MARTIN.

LIBRARIAN.

CHARLES H. BURBANK.

ASSISTANT LIBRARIAN.

HARRIET F. HILL.

ASSISTANTS.

WALTER H. GILMAN,	STEPHEN T. WYMAN,
FRED A. WRIGHT,	FLORENCE M. WASHBURN,
CLARA BEARD,	ROGER WALKER,
DANIEL E. HOGAN,	GEORGE T. MANCHESTER.

SUPT. OF READING ROOM.

EDWARD F. SLATTERY.

REPORT.

DIRECTORS' ROOM, CITY LIBRARY, }
LOWELL, December 23, 1887. }

To the City Council of Lowell:

The Directors of the City Library herewith submit their Annual Report for the year 1886 :

FINANCIAL STATEMENT.

RECEIPTS.

Balance on hand December 20, 1885,	\$344.76	
Appropriation by City Council,	12,000.00	
Received from dog licenses,	2,283.77	
Received from fines,	264.65	
Received from sale of catalogues,	53.20	
Received for lost and damaged books,	9.10	
Received from non-residents,	8.00	
Received from all other sources,	11.69	
Received by transfer from appropriation for school houses,	315.31	\$15,290.38

EXPENDITURES.

Salaries	\$6,068.68	
Rent and heating library and reading room,	2,000.00	
Lighting library and reading room,	946.61	
Books,	3,894.28	
Periodicals,	629.78	
Binding,	508.18	
Insurance,	161.00	
All other expenses,	1,081.85	\$15,290.38

CONDITION OF THE LIBRARY.

Volumes purchased,	. . . . .	2,741
Volumes added by gift,	. . . . .	87
Volumes added by binding periodicals,	. . . . .	208
Volumes missing and not paid for,	. . . . .	4
Estimated value of missing volumes,	. . . . .	\$3.00
Total number of volumes in the library,	. . . . .	30,822
Periodicals and papers subscribed for,	. . . . .	279
Periodicals and papers given,	. . . . .	13
Total number of periodicals and papers,	. . . . .	292

The total number of volumes in the Library was estimated in the last Report as *about* 30,000. This year the number of volumes represented on the shelf lists has been verified by comparison of the lists with the books on the shelves, the volumes in circulation as by the charging slips, and those in the hands of the binders or undergoing repairs in the Library. This gives a total of 30,822 volumes, not including a large number of pamphlets as yet unclassified. The classification of the contents of the Library is given in an appendix.

CIRCULATION.

Number of days the Library was open,	. . . . .	305
Number of volumes delivered for home use,	. . . . .	113,430
Number of volumes delivered for reference use,	. . . . .	3,504
Total circulation,	. . . . .	116,934
Average daily use (home and reference),	. . . . .	383
Largest daily use (home and reference) January 30,	. . . . .	1,007
Smallest daily use (home and reference) April 6,	. . . . .	150
Number of applications received during the year,	. . . . .	2,017
Number of names registered during the year,	. . . . .	1,833
Cards withdrawn for non-payment of fines, removals, etc., during the year,	. . . . .	2,804
Names registered December 20, 1885,	. . . . .	7,076
Total number of names registered at date,	. . . . .	8,233

The total circulation has been somewhat less than last year, a condition quite common in the annals of other libraries after the

lapse of two or three years from the date of their being opened as free libraries. The novelty at first induces many to take books who do not continue as steady patrons. The year, however, shows a noteworthy improvement in the character of the books read, in the increase of the reading of works other than fiction from 13 per cent. of the total circulation in 1885, to 19 per cent. the present year. An appendix gives the classified circulation.

In reviewing the work of the year, we find that the period since our last report has been a notable one in the history of the Library, an event of prime importance, hardly second to that of making the Library free to all, having been the adoption by the City Council of an amendment to the ordinance relating to the management of the Library, by which its affairs are virtually separated from political control and influence. This measure was brought about mainly through the efforts of Mr. Lawrence J. Smith, a member of the Common Council the present year, and a former member of this Board, who, undeterred by previous failures in his endeavors to secure this object, introduced a resolution to that effect in the lower branch of the City Council, which was there passed March 23, and took its final passage in the Board of Aldermen March 30. The text of the portions of the ordinance affected by the amendment is as follows :

SECTION 2. The Board of Directors shall consist of the Mayor, the President of the Common Council and Superintendent of public schools for the time being, and six other citizens, to be chosen in the month of January or February, 1884, by a concurrent vote of both branches of the City Council, or in case of a vacancy at any other time, in the same manner for the remainder of the unexpired term ; two of said members to be chosen for the term of one year, two for the term of two years, and two for the term of three years ; and thereafter in one of the said months in each year two members shall be chosen for the term of three years.

SECTION 4. There shall be chosen in the month of December, 1886, and whenever a vacancy occurs, by a vote of the Board of Directors, a librarian of the City Library, who shall hold his office until removed for cause.

SECTION 5. The Board of Directors * * * shall choose such assistants as may be needed in said Library and Reading Room.

In accordance with the requirement of the amended ordinance, the Directors, at a regular meeting on Monday evening, December 6, unanimously elected Mr. Charles H. Burbank to continue in the position of librarian, to which he had been chosen by the City Council at the beginning of the year.

Another matter of importance has been the insurance, for the first time, of the books contained in the Library, to the amount of \$20,000. This was divided among the several insurance agencies of the city, and effected at a cost of \$161, which will probably be lessened to some extent by the return of dividends by the mutual companies, with which a portion of the amount was placed.

The work of preparation for printing a catalogue has been pushed with all possible diligence, but has as yet been confined to the making of cross references. This involves the close examination of every book in the Library, except works of fiction, and referring to its appropriate place in the system of classification every subject contained therein which is not clearly comprehended in the title, and is of sufficient importance to be so noted. About two-thirds of the books to be examined have been thus passed in review. If the entire time of one person could be devoted to this somewhat onerous work, it could be quickly accomplished, but the multitude of other duties devolving upon the librarian have occasioned numerous interruptions to its steady progress. It is hoped, however, to have this labor completed early in the year. The next step towards the production of the catalogue will be the preparation of the manuscript for the printer. This will necessarily take considerable time, for it is a work requiring great care and accuracy, and the printed catalogue, when completed, will make a book nearly two-thirds as large as Webster's "unabridged Dictionary." The cost of merely printing and binding the catalogue will amount to several dollars a copy, but it is customary to charge the public only about half the cost of a catalogue, the city or town bearing the rest of the expense. The entire cost, however, must be provided for at the beginning and returns received as copies are sold. It has been the experience else-

where, that with catalogues ranging in price from one to two dollars, only a limited number, rarely exceeding 300 or 400, is taken in the first few months after publication ; then the sales fall off rapidly and only a few copies each month are called for. There is no reason to believe that it would be otherwise in Lowell. Although the printed catalogue will be a great convenience, and of almost inestimable value to some persons, a large proportion of the patrons of the Library would not purchase a copy for their own use and thus help defray a portion of its great cost. The work once accomplished, however, would be complete to the date of its publication, and as such, would endure to many years of usefulness, all subsequent work of cataloguing being supplemental thereto. Meanwhile, the public are reasonably well provided for with the card catalogue, which has the advantage of showing the very last addition to the Library, and which it is hoped to improve further, the coming year, by the adoption of a type-writer, which will make the cards more legible.

In the matter of additions great activity has prevailed, 2741 volumes having been acquired by purchase, 87 by gift, and 208 from periodicals received from the Reading Room and bound, making a total of 3036 volumes added to the Library during the year. Many of these have been works of great value, supplying deficiencies that have long existed ; many such have been procured at auction sales, at extremely low prices. In 1874, the Library directors were requested, in a communication signed by many prominent citizens, to procure French books for the already numerous inhabitants whose vernacular was that language. But little or nothing appears to have been done in the matter at that time. Quite early in the present year the librarian observed that large numbers of our French-Canadian population, both adults and children, were users of books, and that they took with avidity anything they could obtain in French. This led him to examine the resources of the Library in this department, which proved to be very meagre. Just as a list of classic and current French literature was being prepared for importation, an extensive private library of foreign books was announced for sale at

auction. Advantage was taken of this opportunity, and between 300 and 400 volumes were purchased, mostly in French but including a few in German and Italian, covering nearly every department of literature. It was almost feared that the class of reading thus provided would be too severe in character for popular appreciation. But the result has been contrary to this apprehension, works of history, biography, travel and general literature having been in much greater demand than romances or other light works. It is especially noticeable that translations of standard English works into French are much read, such as Milton's "Paradise Lost" and several plays of Shakespeare. Numerous works relating to the United States were included in this purchase, and are also eagerly sought. A classified list of the accessions during the year is given in an appendix.

The hope expressed in our last report, to restore the so-called directors' room to its former use as a reference room, has been fully realized. In it have been placed the encyclopædias, dictionaries, and general works of reference, together with many of the more costly art works and literary rarities and treasures, as far as its limited accommodations would allow, and the room has been opened freely to the public at all hours when the Library is open, except the single evening in each month when it is required for meetings of the directors. Here may be consulted at leisure not only such works as have been mentioned, but also any books in the Library. This privilege has been well appreciated by the public, and there is scarcely a day when the room is not visited by many persons, seeking information on all sorts of subjects. Between 3000 and 4000 volumes were consulted in this room during the year. That this important adjunct to the Library is destined to increase in the estimation of readers and investigators is beyond a doubt.

In view of all circumstances, it was not deemed advisable to carry out the plan suggested in the last report for procuring larger quarters for the Reading Room, though the necessity for such action is even greater than at that time. The room is far too small to

accommodate with comfort the large numbers who resort to it, and the usefulness of the institution will be greatly increased whenever its condition in this respect can be improved.

The relation of the Library to the public schools has improved to a considerable extent, but its resources are not yet employed by our teachers and scholars as they might be. The progress, however, made this year gives good encouragement for future gain in this direction. It has been said that if our schools are so conducted as to awaken a taste for knowledge and give a correct method in English reading, the free public library may represent the university brought to every man's door. And in endorsement of this view, Josiah Phillips Quincy remarks that "The function of a town library is to supplement the town schools; to gratify the taste for knowledge which they should have implanted, and to serve as an instrument for that self-education to which there is no limit." By invitation of Mr. G. F. Lawton, superintendent of public schools, who, by the amended ordinance, is now a member of this Board, the librarian addressed the school teachers of the city on this subject, in Huntington hall, Saturday afternoon, December 4, and it is hoped that the interest then awakened may bear good fruit. As soon as attention can be given to it, special details for the furtherance of this work will be arranged, of which due announcement will be made.

To accommodate the large number of volumes added during the year, additional shelving has been placed wherever possible, and the limit of such extension appears to have been reached. Nearly all of the room thus obtained is already occupied, and the question where to place the new books that are constantly coming to the Library becomes a serious one. The present quarters of the Library, at their best inadequate to accommodate the thousands who resort to it, are now entirely outgrown by the accumulation of books. The urgent need of the Library is for a building devoted solely to its use. This must either be provided by the city or supplied by private liberality. Not less than \$100,000 would be required to purchase a site and erect and properly equip a suitable library building, modest and

chaste in architectural proportions, but provided within with every approved appointment for the accommodation of the public and convenience of administration, and capacious enough to afford room for prospective increase for at least a generation to come; for the City Library has now passed the phase of being a mere purveyor of the ephemeral and trivial in literature for the entertainment of the multitude, and has attained the higher function of supplying food for thought, and of being a repository of all that is worthy of preservation in every department of human knowledge. In fact, its value in the community can hardly be overestimated, and the money which is spent upon it may properly be regarded rather as an investment than an expense, so large is the return. In his admirable address at the dedication of the Free Public Library building in Chelsea, James Russell Lowell happily said: "A college training is an excellent thing; but, after all, the better part of every man's education is that which he gives himself, and it is for this that a good library should furnish the opportunity and the means." And an English writer recently gave the opinion that "the great readers of the next generation will be, not our lawyers or doctors, shopkeepers or manufacturers, but the laborer and mechanic. The former work mainly with their heads, which are too exhausted for reading, and whatever leisure time they have must be devoted to air and exercise. The laborer and mechanic, on the contrary, besides being occupied often for much shorter hours, have in their work-time taken sufficient bodily exercise, and can therefore give any leisure they have for reading and study." As it must now be conceded that the educational influence of the Library is not only coequal but also supplemental to the work of the public schools to as great an extent as individuals may see fit to employ it in the pursuit of knowledge, it would seem to be as consistent for the city to appropriate money for the erection of a library building as for the construction of a new school house; and even more so, for while the former is for the instruction of our youth within certain limits of age, the Library affords opportunity to all, irrespective of age or condition, to drink

freely at the fount of wisdom. In many other places, however, private munificence has supplied this want, a few instances of which may be cited as examples worthy of imitation. In Chicago, by the will of the late Mr. Walter Newberry, \$3,000,000 became available a year ago "for the establishment and support of a free public library." In Baltimore, about the same time, by the generosity and public spirit of a living citizen, Mr. Enoch Pratt, there was opened a magnificent public library building, with a capacity of more than 200,000 volumes, and at the same time several branch libraries in suburban districts of the city. The whole amount of Mr. Pratt's gift, for the land, the building, books, etc., is upwards of \$1,000,000, and will ensure an annual income to the library of \$50,000. Mr. Adolph Sutro is about erecting in San Francisco a magnificent building for a free public library, in which he will place his collection of 60,000 books, of exceptional value, all for the free use of the citizens. In Minneapolis the public spirit of the people has found expression in gifts which secure at once a library building costing more than \$200,000. And all about us, in New England, are to be found public libraries standing either as memorials to the departed or testimonials to the public spirit and generosity of the living, among which may be mentioned Haverhill, the gift, largely, of Mr. E. J. M. Hale; Fitchburg, the gift of Mr. Rodney Wallace, at a cost of \$84,500; Worcester, established by the benefaction of Mr. Green; Woburn, given by Mr. Winn; Chelsea, provided with a building by the generosity of the Hon. Eustace C. Fitts; Billerica, with the Bennett Library; Concord, Malden and Quincy. A visit to either of these beautiful and appropriate housings for books, with their perfect appointments and well adjusted systems of administration, should be enough, one would think, to inspire a desire to follow the example which they give. And on this point Mr. Lowell says, in the address at Chelsea before mentioned, "There is no way in which a man can build so secure and lasting a monument for himself as in a public library. Upon that he may confidently allow *Resurgam* to be carved, for through his good deed he will rise in grateful remembrance, and

in the lifted and broadened minds and fortified characters of generation after generation. The pyramids may forget their builders, but memorials such as this have longer memories." These examples and this suggestive utterance are commended to the serious consideration of our public-spirited citizens who have acquired wealth within our borders, in the hope that perhaps some of them may be moved to devote a portion of the well-earned reward of their industry to this noble and praiseworthy purpose.

A list of those to whom the Library is indebted for gifts of books is appended. Thanks are due to all, and especially to the local press for many kind favors during the year, in spreading information respecting the Library before the public, as well as for gifts of their publications for preservation.

<i>Ex-officiis.</i>	{	<p>JAMES C. ABBOTT, <i>Mayor.</i> W. M. SAWYER, <i>Pres. of Com. Council,</i> GEO. F. LAWTON, <i>Supt. of Public Schools,</i> LAWRENCE CUMMINGS, EDWARD ELLINGWOOD, HARRY DUNLAP, WILLIAM J. COUGHLIN, ARTHUR F. SALMON, WM. G. WARD.</p>
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Board of Directors.

Lowell, Dec. 21, 1886.

LIST OF DONORS TO THE LIBRARY, 1886.

	VOLS.	PAMS.
Allen, Hon. Charles H.	3	
Allen, Nathan		2
American Antiquarian Society		35
American Unitarian Association		12
Astor Library		1
Ayer Company, J. C.	1	
Baker, Walter & Co.	1	
Barton, Samuel M.		2
Batten, John M.		1
Boston Public Library		2
Boston University		1
Bowditch, William I.	1	
Brock, Mrs. G. C.		1
Brooklyn Public Library		2
Buffalo Public Library		1
Burbank, Charles H.	11	35
Cambridge Public Library		1
Carleton, George H.	1	
Chalmers, Patrick		1
Chelsea Public Library		1
Chicago Public Library		1
W. B. Clarke & Carruth		1
Clarke Institution for Deaf Mutes		1
Coburn, Silas R.	1	
Columbia College		1
Congregational Sunday School and Publishing Library		1
<i>Carried forward,</i>	19	103

16 LIST OF DONORS TO THE LIBRARY, 1886—CONTINUED.

	VOLS	PAMS.
<i>Brought forward,</i>	19	103
Curtis, George T.		1
Dawson, C. C.		1
Derwent, Henry D.	1	
Farnham, Rev. J. M. W.		1
Faxon, Henry H.		1
Fitchburg Public Library		1
Gibson, A. M.		1
Gilday, Rev. John	1	
Gilman, Alfred	1	
Grand Rapids Public Library		1
Green, John O.	1	
Green, Samuel A.	1	4
Hartford Public Library		1
Harvard University		3
Huse, S. W. & Co.		2
Hutchins, Rev. Charles L.	2	
Johnson, H. S.	1	
Lancaster, Walter M.		1
Lawrence Public Library		1
Lawrence, Samuel		1
Leeds, Josiah W.	1	
Lynn Public Library		1
MacDonald Bros.		1
Maimonides Public Library, New York		2
Malden Public Library		1
Manchester, Rev. L. C.	9	402
Manchester Public Library		1
Massachusetts State Library		1
Mercantile Library Association, New York		2
<i>Carried forward,</i>	37	534

	VOLS.	PAMS.
<i>Brought forward,</i>	37	534
Mercantile Library Association, Philadelphia . .		1
Mercantile Library Association, San Francisco . .		1
Middlesex Mechanics' Association		1
Milwaukee Public Library		1
Morning Mail Co.		2
Munroe, A. C.		13
New Jersey State Library	1	
Newton Free Library		1
Ohio State Forestry Bureau	1	
Old Residents' Historical Association	1	
Paterson, N. J., Free Public Library	1	
Peirce, Hon. Henry B.	11	1
Pinkham, George E.		2
Post 42, G. A. R.		1
Pratt, Charles	1	
Provident Life and Trust Co.	1	
Reed, W. A.		1
Richardson, Mrs. D. A.	1	1
Riordan, John H.		2
Rogers, Harriet B.		22
Royal Society of Canada	1	
Russell, Hon. William A.		2
Seward, Rev. J. L.		1
Smith College		1
Soule, J. H. & Co.		1
Springfield Public Library		1
Swansea (Eng.) Public Library		1
Taunton Public Library		1
Thompson, Rev. A. H.		1
<i>Carried forward,</i>	56	593

	VOLS.	PAMS.
<i>Brought forward,</i>	56	593
Toronto Medical School		1
Trustees of Lowell Cemetery		1
Tufts College		14
United States Bureau of Education		4
United States Chief of Ordnance	1	
United States Civil Service Commission	1	
United States Comptroller of Currency	1	
United States Department of State	2	
United States Cont. Interior Department	1	
United States Life-Saving Service	1	
United States Patent Office		54
United States Smithsonian Institute	2	
United States Treasury Department	2	
United States War Department	6	
University of Pennsylvania		1
Utica Public Library		1
Wellesley College	1	1
Whitaker, Rev. N. T.		1
Wisconsin Historical Society	1	
Worthen, George W.	12	
Wright, Hon. Carroll D.	1	1
<i>Carried forward,</i>	88	672

CLASSIFIED CONTENTS OF THE LIBRARY.

General Works	.	.	.	.	.	.	.	2,567
Periodicals	.	.	.	.	.	.	.	1,120
Polygraphy	.	.	.	.	.	.	.	531
Bibliography	.	.	.	.	.	.	.	205
Philosophy	.	.	.	.	.	.	.	671
Theology	.	.	.	.	.	.	.	2,211
Sociology	.	.	.	.	.	.	.	1,588
Philology	.	.	.	.	.	.	.	171
Natural Science	.	.	.	.	.	.	.	1,274
Useful Arts	.	.	.	.	.	.	.	1,023
Fine Arts	.	.	.	.	.	.	.	796
General Literature	.	.	.	.	.	.	.	3,368
Fiction	.	.	.	.	.	.	.	6,406
History, including Travel and Description	.	.	.	.	.	.	.	5,901
Biography	.	.	.	.	.	.	.	2,990
								30,822

Proportion of Fiction to all other classes $20\frac{3}{4}$ per cent.

CLASSIFIED LIST OF ACCESSIONS, 1886.

General Works	.	.	.	.	.	.	.	126
Periodicals	.	.	.	.	.	.	.	201
Massachusetts history	.	.	.	.	.	.	.	110
Philosophy	.	.	.	.	.	.	.	48
Theology	.	.	.	.	.	.	.	292
Sociology	.	.	.	.	.	.	.	145
Philology	.	.	.	.	.	.	.	46
Natural Science	.	.	.	.	.	.	.	90
Useful Arts	.	.	.	.	.	.	.	138
Fine Arts	.	.	.	.	.	.	.	214
General Literature	.	.	.	.	.	.	.	445
Fiction	.	.	.	.	.	.	.	320
History, including Travel and Description	.	.	.	.	.	.	.	515
Biography, including Genealogy	.	.	.	.	.	.	.	152
Total	.	.	.	.	.	.	.	2,842

Proportion of Fiction to other classes added 9 per cent.

STATISTICS OF CIRCULATION FROM DECEMBER 21, 1885, TO
DECEMBER 20, 1886.

MONTH.	General Works.	Periodicals.	Philosophy.	Theology.	Sociology.	Philology.	Natural Science.	Useful Arts.	Fine Arts.	General Literature.	Fiction.	History.	Biography.	Reference.*	Total.
December, 1885..	2	47	17	15	22	5	29	26	30	102	3068	155	53	..	3,571
January, 1886....	23	172	63	58	87	17	97	109	128	336	9944	532	215	..	11,781
February, 1886...	18	165	64	78	100	13	98	115	104	374	8870	588	166	343	11,096
March, 1886.....	26	172	73	84	66	14	120	141	130	356	9838	592	192	254	12,058
April, 1886.....	22	158	57	53	57	12	63	91	142	269	7983	376	128	239	9,630
May, 1886.....	15	149	63	56	67	12	60	77	104	279	7282	332	121	384	9,001
June, 1886	25	140	51	61	46	10	69	109	134	227	7082	365	106	205	8,630
July, 1886.....	18	127	49	54	57	5	74	68	111	243	6857	322	120	136	8,241
August, 1886.....	3	111	57	56	64	4	65	78	98	312	6821	339	116	448	8,572
September, 1886.	11	109	45	63	67	18	65	114	113	392	7057	343	144	363	8,904
October, 1886....	29	121	58	70	62	2	69	104	132	387	7354	428	152	257	9,225
November, 1886..	33	152	74	68	81	..	92	114	138	387	7743	450	210	364	9,906
December, 1886..	12	107	37	37	44	..	47	70	61	244	4758	289	102	51	6,319
Total	237	1730	708	753	820	112	948	1216	1405	3908	94,657	5111	1825	3504	116,934

Library open 305 days.

Average monthly circulation,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9,744
Average weekly circulation,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2,436
Average daily circulation,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	383
Largest monthly circulation (March),	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12,058
Smallest monthly circulation, (July),	.	.	.	.	.	.	.	.	.	.	.	.	.	.	8,241
Largest daily circulation (January 30),	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1,007
Smallest daily circulation (April 6),	.	.	.	.	.	.	.	.	.	.	.	.	.	.	150
Percentage of fiction read,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.81
Percentage of other classes,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.19

*No record kept till February.

ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, February 2, 1887.

Read and ordered on file, sent down.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, February 8, 1887.

Read and ordered on file.

WILLIAM J. COUGHLIN, *Clerk*.

REPORT.

OFFICE OF THE BOARD OF HEALTH, }
JANUARY 29, 1887. }

To the City Council:

In compliance with law and custom, the Board of Health submits its ninth annual report, together with a "review of the sanitary condition of the city." This report covers the year from January 1 to December 31, 1886. In 1885 the fear of small-pox and cholera kept up a constant interest in health matters, but no epidemic came and the year proved very healthful. In 1886 there has been no alarm, and no epidemic, but the mortality has largely increased, as will appear in the latter part of this Report.

COMPLAINTS AND NUISANCES.

Privy vaults, full,	.	.	.	.	.	.	.	681
Filthy cellars and yards,	.	.	.	.	.	.	.	65
Swine ordered removed,	.	.	.	.	.	.	.	31
Vaults ordered removed,	.	.	.	.	.	.	.	14
Privy vaults leaking,	.	.	.	.	.	.	.	6
Filthy water closets,	.	.	.	.	.	.	.	5
Ordered enter sewers,	.	.	.	.	.	.	.	5
Filthy houses,	.	.	.	.	.	.	.	4
Filthy henneries,	.	.	.	.	.	.	.	3
Defective plumbing,	.	.	.	.	.	.	.	2
Dead animals removed,	.	.	.	.	.	.	.	2
Filthy stables,	.	.	.	.	.	.	.	2
Houses ordered vacated,	.	.	.	.	.	.	.	2

REMOVAL OF ASHES, GARBAGE, FILTH, HOUSE DIRT, ETC.

This constitutes the largest expenditure under the direction of the Board of Health. During the year (1886) 16,080 loads of such material have been removed from the streets, and 518 loads from alleys and back yards. Five teams and ten men have been constantly employed in this way. The great object of this work is cleanliness. By this means, every family in the city is greatly benefited in comfort and health, and it is believed that this work has been thoroughly and faithfully done the past year.

HOUSE OFFAL.

This constitutes an important sanitary work carried on by the Board. It includes all waste matter collected in families, under the term of "swill." Formerly this was removed by private individuals, but experience proved that it was not collected regularly, especially in summer, nor was it always conducted in a cleanly and wholesome manner. In hot weather it frequently became a nuisance, a source of disease, and in many private families the quantity was so small that they could not readily dispose of it. As a sanitary measure it became absolutely necessary for the Board of Health to take charge of it. As in hotels, boarding houses, and large families the parties are allowed to dispose of it as they see fit, this embraces nearly all the large collections which are of much value, and can be turned to some account. Thus it requires much time and labor to collect these small quantities widely scattered in the city. In collecting and disposing of this swill, it requires five teams and eleven men all the time. One man is employed in its care and disposal, together with keeping the account. During the year 1886, 17,308 barrels were collected and sold. The receipts are turned toward the expense of carrying on the work, which amounts to nearly two-thirds of the cost. This business is carried on as a work of sanitation :—as much so as cleaning out the back alleys and yards.

The interests of private and public health demand that it should be done, even if no remuneration was obtained from this work. It should be stated that it is not four years yet since the Board took

charge of this business, and the income in proportion to the expense has been steadily improving. The time may come when this department will be a paying concern.

CONTAGIOUS DISEASES.

During the year, with the exception of small-pox, contagious diseases have prevailed, though not in an epidemic or malignant form. There have been reported to the Board 72 cases of diphtheria and 41 of scarlet fever. The latter has prevailed in a mild form, there being only four deaths, but diphtheria has proved quite fatal, 34 deaths, almost one-half. In nearly all these cases the premises have been visited to ascertain their sanitary condition, and to give precaution in preventing the extension of the disease. In some cases the cause was obvious, but in others not easily discovered; in quite a number of instances it could be traced directly to exposure in another case. But one thing was very evident, these diseases were widely scattered in the city. With two exceptions, there was only one in the same neighborhood, or in dwellings contiguous.

Measles and whooping cough, the latter part of the season, have been very prevalent in some parts of the city. As the law requires no notification of these diseases, the Board could not well take the same cognizance of them as of diphtheria and scarlet fever. As measles and whooping cough interfere very much with school exercises, and sometimes prove dangerous and fatal, it is a question whether more active measures should not be taken to check, if not banish, these diseases. Boards of Health undoubtedly have power to do this even if not directed by statute laws. Should the same measures be applied to control these diseases as are applied to diphtheria and scarlet fever, would the community sustain them? If not now, the time will come when this will be done. It is not merely the sickness accompanying these diseases, but their effects on the health and constitution afterward which is most to be dreaded.

SEWERS.

No fact in sanitary science is better established than that the health of a people depends much upon good sewers. These should

not only be properly constructed, but so distributed that the sewerage of every part of a city can conveniently enter them. In this respect the central parts of Lowell are pretty well provided for, but not so with some of the outskirts. Population has been rapidly extending in certain directions, so that there are large numbers now who have no sewer accommodations. In these localities, the streets, yards and grounds can neither be suitably drained, nor can their sink and privies have a proper outlet. The sanitary condition of these neighborhoods are suffering from this source, and there can be no doubt but this is one of the causes of our large mortality. Petitions have been sent into the city government from these localities, and hearings had upon them, but for two years very little comparatively has been done in this direction. In behalf of the sanitary interests of our city, several sewers should by all means be built this year. There are three reasons why a city should expend money liberally for sewers. First: The health of people demand it. Without good sewer accommodations there is always among such people a greater amount of sickness and mortality. Second reason: Justice demands it. Individuals and families who pay their proportion of taxes should be provided with similar accommodations to what others enjoy at public expense. The third reason: The pecuniary interests of a city demand it. The real estate thus favored becomes more valuable, and pays a higher tax. Besides, it is a strong inducement for people outside to remove to such a place and seek there a permanent residence. Thus, health, justice and property interest are benefited by having good sewer accommodations in every part of a city. While Lowell has done well in the past, there is an imperative need of better sewerage in certain neighborhoods.

VAULTS AND NIGHT SOIL.

In cities more complaints come from privy vaults than from all other sources. They are universally considered the greatest nuisance we have, and, at the same time, one of the most fruitful sources of disease. The construction, location, care, ventilation and cleaning out of vaults—each one of these comprise important items in the

account. But the cleaning out of vaults has always been found the most troublesome, and its management attended with the greatest difficulty. Formerly, their contents were removed by interested parties, and the work was performed mostly by night. But there was a general dissatisfaction with this course. The first Report of this Board designated "the night-cart system of emptying vaults the most intolerable of all nuisances." The Report of 1880 says, "The privy-vault system of our city is in the worst possible condition. Hundreds of these vaults are old and decayed. The contents of many of them have leaked out into the ground, until the earth about them is thoroughly saturated and has become the source of the most poisonous miasma. How long this contamination can continue without serious results is only a question of time."

In 1881, the process of cleaning out vaults by the "Odorless Excavating Apparatus" was introduced into Lowell, and it was expected there would be by this change great improvement in this business. The Reports of 1882-3 and '84 make very little account of the manner in which this work was done. The Report of 1885 makes no mention whatever of the subject. In 1886, soon after the Board had entered upon its duties, it was confronted with two facts; first, with numerous complaints of the unsatisfactory manner in which this work was carried on. To such an extent had these complaints prevailed, the remark was often made that there was no improvement over the night-cart system of former days. The other fact claiming the Board's attention was the large death rate of Lowell, especially as compared with other cities.

Upon careful investigation it was found that, with two other exceptions, the death rate of Lowell was higher than that of any other city in the state. It was also found that the cities generally which had used this "Odorless machine" for years had reduced their death rate.

In attempting to account for the large mortality in our city, the question arose, Has not the bad condition and unsatisfactory management of the vaults something to do with it? In view of these facts, it seemed as though some reform in this business was

absolutely necessary; that in order to secure better and more wholesome service it should be placed under strict rules and regulations, in such a way that these could be rigidly enforced. Whether this reform shall be carried out, and become established, remains to be seen.

RETURN OF DEATHS.

The law provides that if certificates are returned by undertakers, without a physician's name attached, stating the cause of death, the Board of Health must sign such certificate. The object is to see that there is nothing wrong in the death, and then, that there should be a correct list of diseases, accounting for each death. The number of such returns, probably over 100 each year, is larger than it should be. No sick person should be allowed to die without a physician being called to see if anything can be done to save life. There can be no excuse for such neglect, as the city provides a physician in every ward, who can be summoned any hour without expense to the party. There have been returns of deaths the past year, some of adults but more especially of children, where no physician had attended; on inquiry into the circumstances, it would look as though there was shocking indifference or neglect!

Might it not be well to have the law enacted to prevent cruelty to animals, apply also to human beings?

MORTALITY OF LOWELL.

The deaths for 1886 were 1499, making 170 more than in 1885, and 52 larger than ever in any previous year. Of this number 407 died under one year of age, and 618 under five. The leading diseases were: Cholera Infantum, 169; Consumption, 168; diseases of heart, 90; Pneumonia, 88; Old Age, 58; Typhoid Fever, 53; Croup, 39, and Diphtheria 34, making 699 from these eight causes. There was no epidemic during the year, and only 50 deaths from contagions. The number of deaths last year at the City Almshouse and St. John's Hospital was less than usual. The large mortality of 1886 does not seem to be occasioned by any one disease, but by an increase of deaths from several. The infant mortality as a class

was quite large. The deaths—407—under one year make 27 per cent., and the 618 deaths under five make 41 per cent. of the whole. The increased population of the city over 1885 will account in part for the increase of deaths, though not sufficient to make it satisfactory.

SANITARY CONDITION OF THE CITY.

The law directs that a Board of Health shall present in its annual report “a review of the sanitary condition of the city.” There are three classes of facts which test the health or sanitary condition of a place. First, its death rate; second, the percentage of its infant mortality; third, the proportion of deaths in the zymotic class to the whole mortality. The zymotic class comprises those diseases which are considered preventable. The death rate based upon the population at the census of 1885 is 23.27 in a thousand, but would be reduced some in proportion to the increase of population in 1886. The average death rate for a series of years in the whole state does not vary much from 19 in a thousand, and also the same in all the cities of the state.

The mortality under five years is 41 for 1886 in a thousand, and for a series of years 37 in Lowell, whereas in the whole state the average is 35 in a thousand, and in all the cities of the state not much larger.

From a careful examination of the mortuary statistics of Lowell for ten years, it does not appear that there has been any reduction of deaths in the zymotic class of diseases, whereas in the state they have reduced almost one-quarter in the course of ten years. This is everywhere considered a sure test of the state and progress of sanitary science. In view of these facts, it is evident that there is much need of improvement in the sanitary condition of the city. While it may be difficult to explain all the causes of its high death rate, some of the more obvious demands attention. First, its infant mortality is too high. Some special means should be put forth for its reduction. Second, in certain quarters, densely populated, the death rate is extraordinary. For illustration, there were 107 deaths recorded by the city clerk in “1886” for “Little Canada!”

There are other localities where the laws of health and life are grossly violated, and greatly need renovation. No reform is likely to start spontaneously in those quarters. Third, there is another source which constitutes a fruitful cause of disease and death, that is the vault system. It has been found in all cities suffering from unusual sickness and mortality, that a bad condition and management of vaults was one of the primary causes. No sanitarian becoming acquainted with the past and present state of things here, on this subject, could come to any other conclusion than that this has had much to do with sickness and death in the city, and that a radical reform is here necessary as a *health measure*.

Fourth. There is still another cause of our increased death rate, which demands the attention of the city government. In several large neighborhoods in the outskirts of the city, no sewers exist by means of which the streets, grounds, yards, cellars, sinks and vaults can be drained. There can be no question but such a state of things must result in increased sickness and mortality. It is hoped some active measures will soon be taken towards remedying this evil.

In closing this report, we would gladly congratulate our citizens upon the good health and favorable sanitary condition of the city, but the facts and statements here made will not justify it.

Respectfully submitted,

J. W. B. SHAW,
NATHAN ALLEN,
J. J. COLTON.

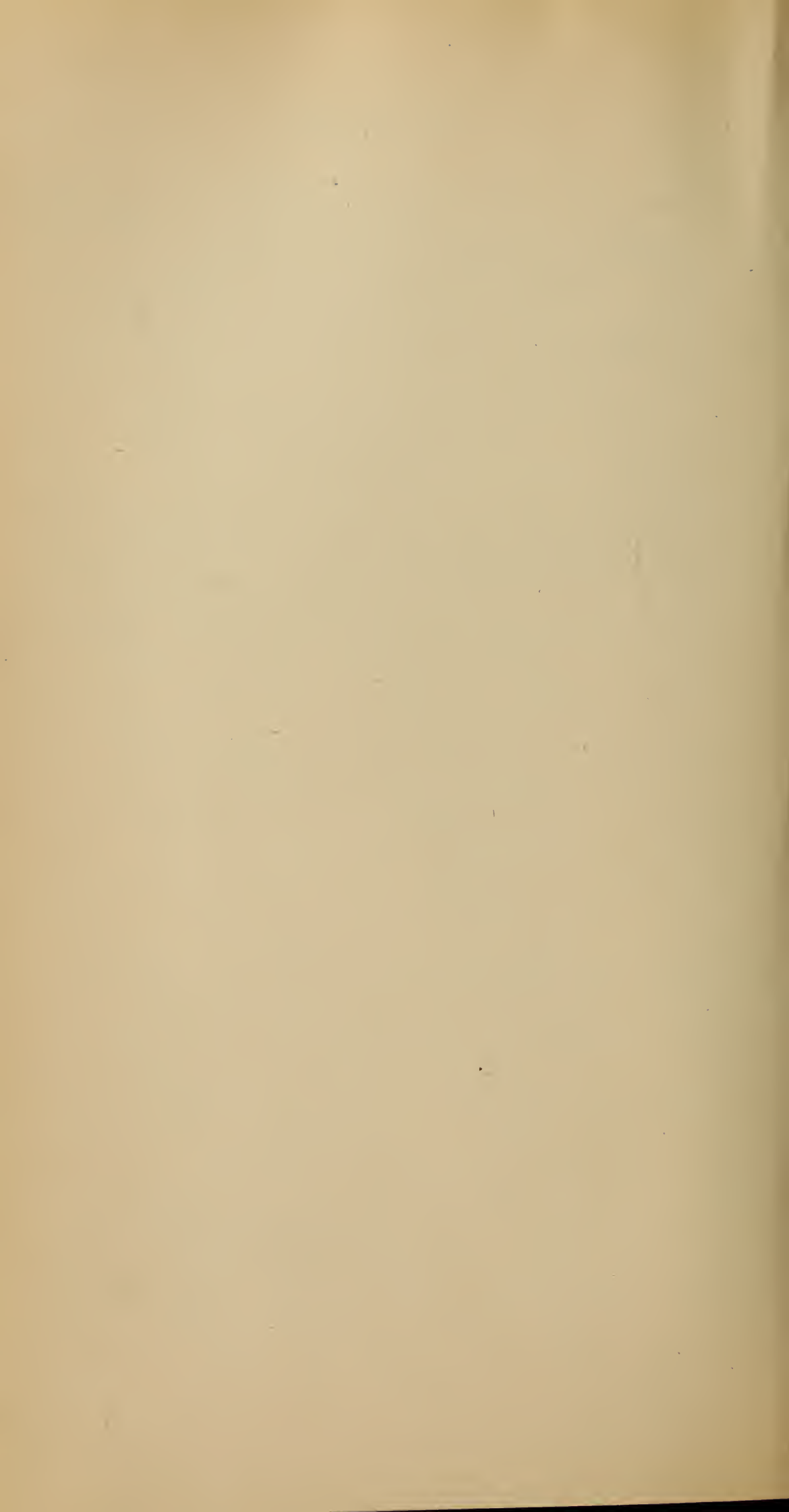
FINANCIAL STATEMENT.

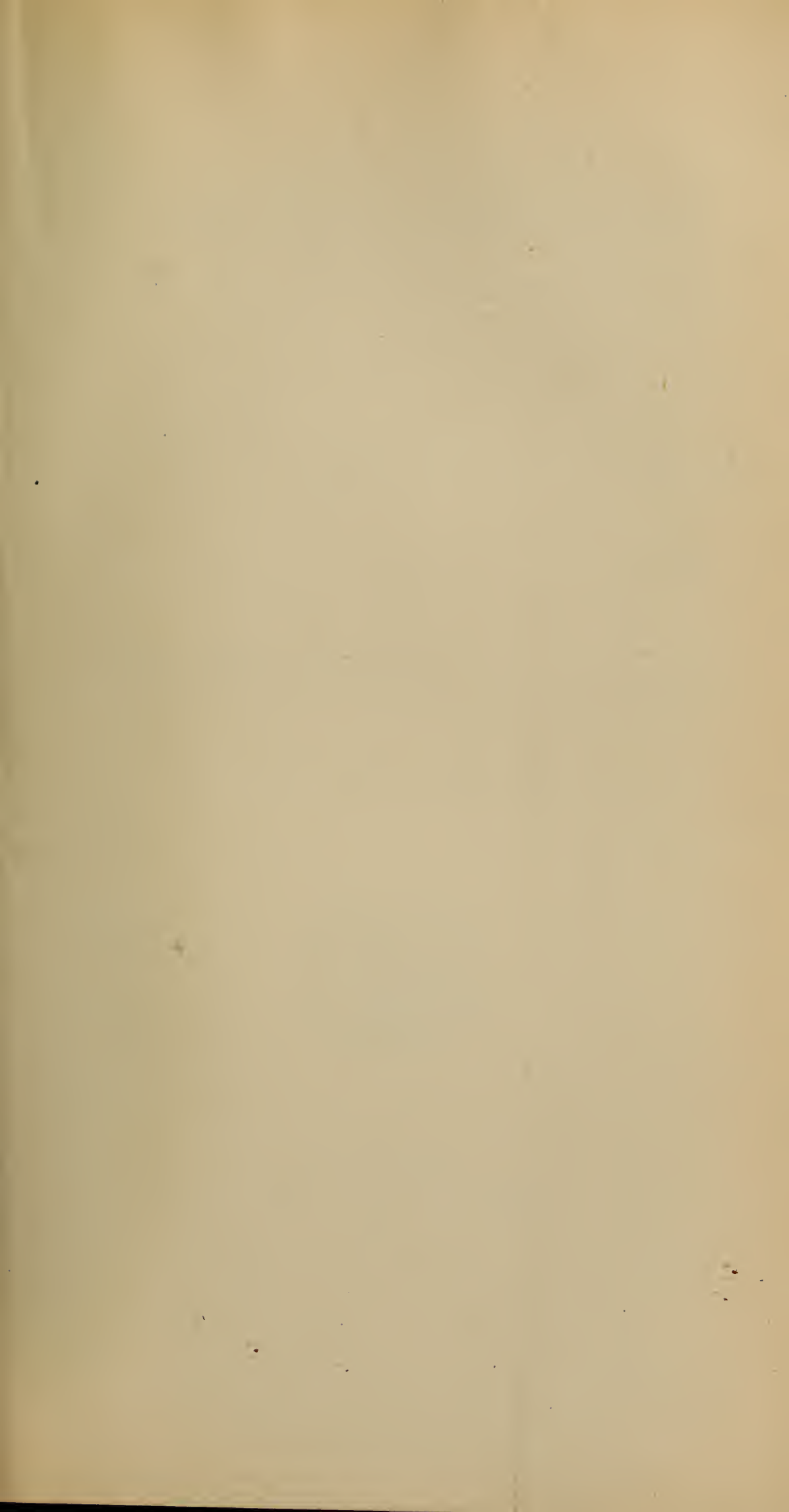
Balance on hand,	
Appropriation for the year 1886,	12,000.00
Receipts from various sources,	4,659.00
Transferred from reserved fund,	2,000.00
	<hr/>
	\$18,659.00

EXPENDITURES FOR THE YEAR 1886.

Board of Health (salaries),	\$ 1,000.00
Pay roll,	13,020.52
City water tax,	72.00
Stationery and books,	21.97
Lowell Gas Light Co.,	26.10
Rent of offices and land,	220.00
Lumber,	42.37
Hay, grain and feed,	1,806.66
Hardware,	41.60
Paints, oils, glass and brooms,	44.07
Fuel,	50.67
Printing and advertising,	53.65
Pails, tinware, etc.,	7.15
Veterinary surgeon, liniment, etc.,	26.00
Free vaccination,	172.88
Smallpox hospital, expenses,	24.95
Harnesses, blankets, covers, etc., horses, wagon, sleds.	1,077.31
Swill boxes, repairing, carts, harnesses, etc.,	391.33
Piping and plumbing,	8.62
Teaming and use of horses,	82.67
Watching,	90.50
Pasturing horse,	5.50
Painting wagons and sleigh,	29.00
Painting signs,	11.58
Disinfectant,	7.41
Rubber stamp,	4.50

3 hoes,	3.00
Books,	11.00
1 book-case,	25.00
1 chest of drawers,	7.00
Chairs,	4.00
1 ice tank,	3.00
Bed and bedding.	18.00
1 wolf robe,	11.00
1 hay cutter,	7.00
1 feed box,	5.00
6 stable pails,	4.00
50 feet rubber hose,	3.00
Hospital building furniture,	500.00
<hr/>	
Total,	\$5112.50





ANNUAL REPORT
OF THE
CITY PHYSICIAN
—AND—
SUPERINTENDENT OF BURIALS

FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, February 2, 1887.

Read and ordered on file.

Sent down.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, February 8th, 1887.

Read and ordered on file.

WM. J. COUGHLIN, *Clerk*.

REPORT.

OFFICE OF CITY PHYSICIAN AND SUPT. OF BURIALS.

To the City Council:

GENTLEMEN — According to the usual custom and the requirement of the City Ordinances, I beg leave to present to your honorable board the following Report.

The number of deaths in the city, for the year ending December 31st, 1886, was 1499, showing an increase over the preceding year of 171. The causes of this large increase in mortality are several. Our population, as given at the last census, was 64,051. Taking the increase in the number of polls, and also that of the children of school age, as a basis, and the population of the city is estimated at several thousand more than the above figures.

The large number of dwelling houses that have been built, the most of which are at present occupied, would also indicate a decided increase in population. The percentage of deaths to 1000 population, by the census of 1880 (64,051), would be 23.40, while if we have a population of 70,000, it would be but 21.40.

The number of deaths from consumption, for the year 1880, was 235, the whole number of deaths being 1312. For the past year the deaths from consumption number only 168, showing quite a large falling off. There are reported 26 more deaths from heart disease than there were in 1880. There were also reported 42 more deaths from cholera infantum than in 1880.

There has not been any serious epidemic in the city during the year. Near the close of the year measles and whooping cough became very prevalent, and have made rapid strides among the children. And while no great mortality has been reported from

these diseases, still there can be no doubt that, indirectly, many more have succumbed to diseases incident to them. Pneumonia is credited with 92 deaths for the year, while for the year 1885 there were only 82. Bronchitis and croup are also much more prevalent after an attack of measles or whooping cough, and they are frequently followed by disastrous results.

POLICE STATION.

In the Report for 1885 mention was made of the utterly unfit condition of the Police Station for those so unfortunate as suddenly to meet with accident depriving them of reason. They are taken to the Station House and placed in a cell with absolutely no convenience for the sick. It is encouraging to see the city authorities looking about for some method to remedy this sad condition of things.

CITY HOSPITAL.

Mention was also made in the same report of the great need of a City Hospital, such as is found in other cities of the size and importance of Lowell. That need still continues, and probably will continue until some of our citizens of ample means shall see the necessity for such an institution and come forward and philanthropically build and endow it. What greater meed of praise could one desire than that of having established such a monument to his memory. Money is freely contributed to endow institutions of learning, and also those of a religious character. Why should it not also be forthcoming to relieve and comfort those suffering from disease. St. John's Hospital, it is true, does a great and noble work, and those who contribute to its support are deserving of all praise. But they cannot do everything. Besides, this hospital is often full to overflowing. We have, it is true, at the City Almshouse, a hospital department after its kind, and one as good as others of its kind. But who would care to suffer the agonies of disease with 30 or 40 in the same room? And who, with broken bones, would care to be taken two or three miles away to a hospital, and an almshouse at that? And yet this is the only place over

which the city authorities have control, and to which, if stricken suddenly with disease or accident, one can be sent for treatment. The city of Springfield has a hospital, and recently \$75,000 has been contributed by one of its benevolent citizens for its support and endowment.

CITY FARM.

The average number at the City Farm, for the past year, has been 326. The whole number of deaths was 41, as against 54 for 1885 and 49 for 1884. The deaths were due to the following causes, viz :

Apoplexy	2	Heart Disease	1
Brain Disease.....	1	Hereditary Syphilis.....	1
Brights Disease.....	2	Inanition	2
Cancer	1	Congestion of Liver	1
Consumption.....	12	Old Age.....	3
Debility.....	6	Paralysis.....	5
Dropsy	1	Syphilis.....	3

Five died under the age of five years, and sixteen were over 60 years of age. Twenty-three had been at the Farm less than six months, and twelve were there less than one month before death, and six less than two days before death. These were all sick when they came to the Farm, and were simply brought there to die, coming with no hope of recovery, as they would have gone to any hospital to be cared for while they should live. Only eighteen deaths occurred among the regular residents, and several of them had been there less than one year, and they came in a diseased condition. There was but one death among the children of school age, a boy of nine years who had chronic Brights disease. The whole number of school children was about 100. This certainly speaks well for those having them in charge. Good plain food at regular intervals, with an equable temperature and good ventilation, have done much more to preserve life and health for this class than could possibly have been expected had they remained at such homes as most of them came from. One of the serious diseases that afflicts

children in hospitals, or in institutions of this kind, is conjunctivitis, or ophthalmia, a contagious disease to which children are peculiarly susceptible. In some institutions in New York City from twenty to fifty per cent. of the inmates have at times been thus afflicted, and in former years it has been quite serious at the Farm. But by giving to each child a separate towel, and having arrangements for washing such that each one uses fresh water, as it comes in many streams from a long pipe over the sink, there is at present but very little suffering from this dangerous disease.

It is but just to add that the superintendent, matron and assistants do all in their power to ameliorate the sufferings of those who are committed to their care. A mother and her daughter, both afflicted with diseases of the lungs, left the institution, during the year, in a very comfortable condition, and in less than one week, through the influence of drink and exposure, both were dead. If they had remained at the Farm there is no doubt they might have lived for weeks or months, and in case of the mother probably for years.

Respectfully submitted,

JOHN J. COLTON,

City Physician and Supt. of Burials.

DEATHS IN LOWELL SINCE ITS INCORPORATION.

1827..... 50	1847.....948	1867..... 640
1828..... 36	1848.....825	1868..... 875
1829..... 66	1849.....903	1869..... 763
1830.....104	1850.....492	1870..... 952
1831.....117	1851.....629	1871.....1033
1832.....178	1852.....604	1872.....1048
1833.....211	1853.....734	1873.....1161
1834.....221	1854.....834	1874.....1184
1835.....229	1855.....766	1875.....1020
1836.....253	1856.....790	1876.....1147
1837.....301	1857.....818	1877.....1027
1838.....470	1858.....626	1878.....1080
1839.....340	1859.....736	1879.....1006
1840.....407	1860.....720	1880.....1312
1841.....434	1861.....713	1881.....1287
1842.....473	1862.....641	1882.....1319
1843.....364	1863.....695	1883.....1437
1844.....362	1864.....633	1884.....1401
1845.....363	1865.....575	1885.....1328
1846.....690	1866.....749	1886.....1499

DEATHS IN EACH MONTH FOR THE LAST TEN YEARS.

MONTHS.	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	Total
January	120	64	105	107	84	115	113	124	103	105	1041
February	88	78	69	93	103	82	91	108	121	100	933
March	97	104	78	125	109	91	102	121	107	150	1104
April	84	84	83	103	111	105	122	110	114	125	1041
May	77	82	73	90	101	112	100	98	99	121	955
June	63	78	70	103	86	99	118	87	105	116	925
July	87	132	108	135	144	137	156	143	134	155	1331
August	112	127	97	146	146	137	139	136	137	161	1338
September	81	121	75	184	102	127	152	131	106	124	1203
October	86	78	92	97	103	118	102	107	99	116	998
November	64	58	74	89	93	81	105	106	107	96	903
December	68	82	82	90	105	113	120	110	97	130	997

SHOWING THE NUMBER OF DEATHS FROM SOME OF
THE MOST PREVALENT DISEASES IN THE
LAST TEN YEARS.

DISEASES.	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	Total
Cholera Infantum.....	63	96	86	127	111	135	127	132	124	169	1170
Consumption	176	191	193	233	235	211	255	204	96	168	2062
Croup.....	42	28	26	33	44	23	33	32	43	48	352
Disease of Heart.....	40	45	45	60	62	73	80	93	70	86	654
Diphtheria.....	142	62	21	22	27	18	8	23	31	37	391
Infantile Debility.....	58	67	31	86	69	56	58	58	45	18	546
Marasmus	16	21	24	36	34	31	37	30	28	31	288
Pneumonia	40	53	80	119	83	74	88	101	82	92	812
Scarlet Fever.....	3	2	12	17	9	9	25	19	16	3	115
Typhoid Fever.....	22	24	22	23	53	52	47	40	45	53	380

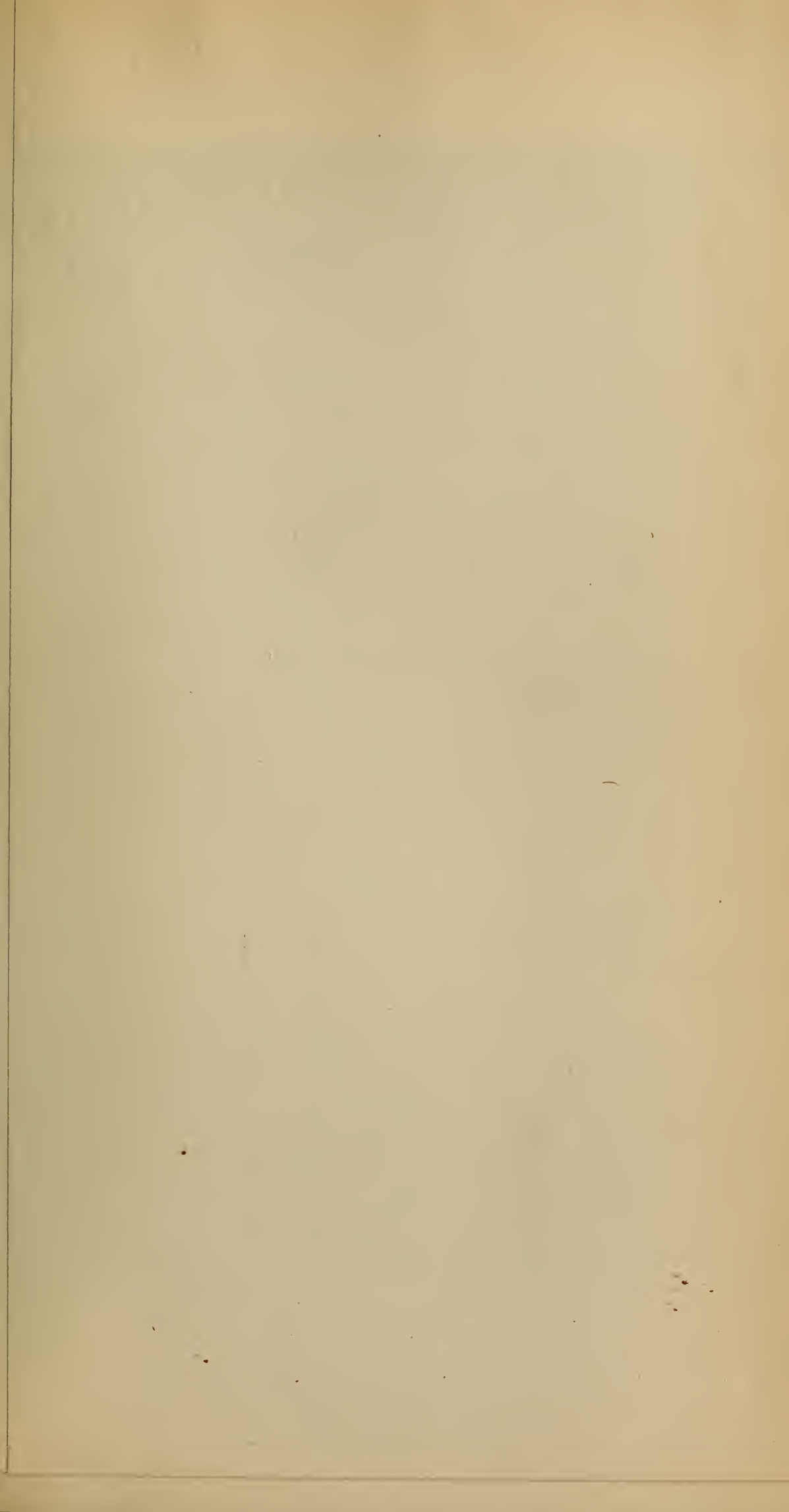
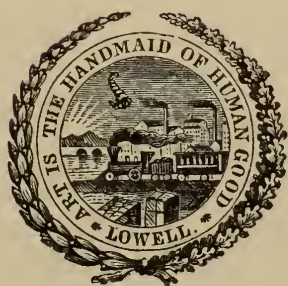


TABLE 1.
EXHIBITTING THE NUMBER OF DEATHS DURING THE YEAR 1886, WITH THE CAUSE, AGE AND SEX.

CAUSE OF DEATH.	SEX.		MONTH.												AGE.													
	Male.	Female.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Under 1 year.												
																1 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	90 to 100 years.		
Total deaths from all causes.	665	884	1499	106	100	150	125	121	116	165	161	124	116	96	130	402	209	73	116	125	67	106	108	112	86	64	12	
Abcesses.	3	3	6	2	1	4	1	3	1	1	1	2	3	2	1	1	1	1	2	2	3	5	1	1	2	1	2	1
Adiphen's Disease	12	0	12	18	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Albumenuria.	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Alcoholism.	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Anamia.	3	1	4	11	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Anasarca.	3	0	3	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Angina Pectoris.	2	1	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Angina Pectoris.	2	1	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Apoplexy.	17	26	43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Asbestosis.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										

ANNUAL REPORT
OF THE
BIRTHS, MARRIAGES AND DEATHS
IN THE
CITY OF LOWELL
FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, March 16, 1887.

Received and ordered on file.

DAVID W. O'BRIEN, *City Clerk.*

IN COMMON COUNCIL, March 22, 1887.

Received and ordered on file. in concurrence.

WILLIAM J. COUGHLIN, *Clerk.*

REPORT.

CITY CLERK'S OFFICE,
LOWELL, MASS., March 16, 1887.

TO THE CITY COUNCIL :

Gentlemen, — I herewith submit the Annual Report of Births, Marriages, and Deaths in the city of Lowell during the year 1886.

BIRTHS.

The number of children born alive during the year was 1883, an increase of 114 over the number recorded for 1885. In 1885 there were 907 males and 860 females, while in 1886 there were 927 males and 956 females.

Ward One reported 151 males and 180 females, including three pairs of twins and one illegitimate birth.

Ward Two reported 140 males and 146 females, including two illegitimate births, one case of triplets.

Ward Three reported 182 males and 180 females, including eight pairs of twins and two illegitimate children.

Ward Four reported 124 males and 140 females and one sex unknown.

Ward Five reported 202 males and 187 females. The returns for this ward include three pairs of twins and one illegitimate birth.

Ward Six reported 128 males and 123 females, — two colored and three illegitimate children, one case of triplets.

Of the number given in as above, there was in Ward One one born in previous years, but not recorded ; in Ward Two there was one ; in Ward Three there were three ; in Ward Four there was one ; in Ward Five there was one ; in Ward Six there were eight ; making a total of fifteen reported with births for 1885 and recorded in 1886, which should have been credited to previous years.

MARRIAGES.

The number of intentions of marriages recorded and issued in 1886 was 832, more by 123 than in the year 1885.

The number of marriages solemnized in Lowell for the year 1886 was 774. Marriages solemnized elsewhere, but returned and recorded here because one or both of the parties resided in Lowell, 39 ; making the total number of marriages recorded in Lowell for 1886, 813. This is more by 106 than the number recorded for the year next preceding.

As an index to the make-up of our population, the following table, showing the nativities of the parties married in 1886, may possess some significance : —

	Grooms.	Brides.
United States.....	397	402
Canada.....	155	158
Ireland.....	136	141
England.....	61	47
Scotland.....	11	9
Other foreign countries.....	53	56

DEATHS.

The number of deaths in 1886 was 1,499, an increase of 171 over the number reported for 1885.

Further details and information as to the causes of death may be found in the Report of the City Physician and Superintendent of Burials.

Copies of the Record of Births, Marriages and Deaths, for the year 1886, have been sent to the Secretary of the Commonwealth, as required by law.

Respectfully submitted,

DAVID W. O'BRIEN,

City Clerk.

6 REPORT OF BIRTHS, MARRIAGES AND DEATHS.

TABLE

Giving the Population, and Number of Births, Marriages and Deaths Recorded in Lowell since its Incorporation.

YEAR.	Population.	Births.	Marriages.	Deaths.
1826-1843.....	.....	est.5,010	est.4,500	4,186
1844.....	25,163	662	319	362
1845.....	.....	660	399	363
1846.....	29,127	772	291	690
1847.....	.....	719	659	949
1848.....	.....	796	516	825
1849.....	.....	672	320	903
1850.....	33,383	966	674	492
1851.....	.....	1,018	669	629
1852.....	.....	1,007	669	604
1853.....	.....	1,093	742	734
1854.....	.....	1,092	808	834
1855.....	37,554	1,039	687	766
1856.....	.....	1,034	632	790
1857.....	.....	1,051	585	818
1858.....	.....	827	467	626
1859.....	.....	983	496	739
1860.....	36,827	1,077	497	720
1861.....	.....	949	459	713
1862.....	.....	763	368	641
1863.....	.....	657	302	695
1864.....	.....	658	335	633
1865.....	30,990	672	406	575
1866.....	36,878	813	625	749
1867.....	.....	826	596	640
1868.....	.....	860	495	857
1869.....	.....	858	575	763
1870.....	40,928	926	515	952
1871.....	.....	886	647	1,033
1872.....	.....	1,099	670	1,048
1873.....	.....	1,365	705	1,161
1874.....	.....	1,356	580	1,184
1875.....	49,688	1,296	513	1,020
1876.....	.....	1,264	514	1,147
1877.....	.....	1,341	552	1,029
1878.....	.....	1,332	546	1,088
1879.....	.....	1,412	635	1,006
1880.....	59,485	1,770	744	1,312
1881.....	.....	1,840	786	1,287
1882.....	.....	1,755	813	1,322
1883.....	.....	1,681	848	1,432
1884.....	.....	1,786	735	1,401
1885.....	64,051	1,769	707	1,328
1886.....	.....	1,883	813	1,499
Total.		52,295	29,714	42,545

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.



LOWELL, MASS. :
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, March 2, 1887.

Read and ordered on file. Sent down for concurrence.

DAVID W. O'BRIEN,

City Clerk.

IN COMMON COUNCIL, March 22, 1887.

Received, read and ordered on file in concurrence.

WILLIAM J. COUGHLIN,

Clerk.

REPORT.

CHIEF'S OFFICE, ENGINE HOUSE, MIDDLE ST.,
LOWELL, January 1, 1887.

To the Honorable Mayor and Board of Aldermen :

Gentlemen:—In accordance with the requirements of the ordinance governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of Lowell for the year ending Dec. 31, 1886. Owing to a change in the Ordinance the report will be made out in January instead of March, as in years past.

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the Department, with number of badge, age, residence and occupation of each member; a record of all fires and alarms which have occurred during the year and the causes thereof, with the names of the owners or occupants, the loss and insurance as near as could be ascertained; with the number and location of fire alarm boxes, hydrants and reservoirs, with an inventory of all property belonging to the department in charge of the several companies, and such other information as is thought proper for your consideration.

The amount received from appropriations and other

sources was \$66,438 59. The expenses of the Department have been \$61,212 98.

The following statement will show the receipts and expenditures :

RECEIPTS.

Appropriation	\$65,000 00	
Receipts.....	1,438 59	
	<hr/>	\$66,438 59

EXPENDITURES.

Pay Roll.....	\$39,767 07	
Alterations and repairs on buildings.....	2,931 34	
Alterations and repairs on fire-alarms.....	2,235 23	
Repairs on steamers, hose carriages, wagons, etc.....	1,185 84	
Exchange of horses.....	2,286 00	
Boilers for heating buildings.....	417 35	
Hay, grain and straw.....	3,628 13	
Harness and repairs.....	341 88	
Veternary services and medicine.....	251 62	
Paid on hose (6's) house.....	4,637 90	
Horse shoeing.....	433 58	
Rent.....	300 00	
Coal.....	925 87	
Gas.....	466 33	
Telephone and rental of instruments.....	345 00	
Laundry.....	73 08	
Beds, bedding and furniture.....	295 65	
Oil, sponges, brooms, dusters, soap, etc.....	559 84	
Incidentals.....	131 27	
	<hr/>	\$61,212 98
Transferred to Appropriation of Schools.....	\$3,000 00	
Balance on hand Jan. 1, 1887.....	2,225 61	
	<hr/>	\$66,438 59

SALARIES OF MEMBERS OF THE FIRE DEPARTMENT.

Chief Engineer.....	\$1500	a year
First Assistant Engineer.....	250	"
Other Assistant Engineers.....	200	"
Foremen of Companies (Call).....	200	"
Engineers of Steamers.....	225	"
Firemen of Steamers.....	175	"
Call Men.....	175	"
Drivers and Permanent Men.....	2.50	per day

FORCE

The Department consists of a Chief and four Assistant Engineers ; one Fire Alarm Telegraph Operator ; three Steam Fire Engine Companies, one of twelve and the other two of eleven men ; four horse Hose Companies of nine men ; two hand Hose Companies of ten men ; two Hook and Ladder Companies, one of ten and the other of fifteen men ; one Protective Company of seven men ; and one Chemical Engine Company of four men ; making a total of one hundred and thirty-two men ; of which thirty-one are permanent and devote their whole time to the interest of the city ; the remaining one hundred and one men are subject to call only during an alarm of fire. In addition to the duties pertaining to his office, the Chief has charge of street lights.

APPARATUS.

The apparatus of the Department is kept in the best possible condition, and comprises four Steam Fire-Engines ; seven four-wheeled two-horse Hose Carriages ; two Hook and Ladder Trucks ; one Chemical Engine,

and one Protective Wagon fully equipped; eight Hose Pungs on runners; Horse, Harness, Wagon and Sleigh for the use of the Chief; three traverse-runner Sleighs; one traverse-runner Sled; seven exercise or fuel wagons and two Fire Alarm Wagons. In addition to the above we have a four-wheeled Horse Hose Carriage loaded with Hose and kept in No. 5's house; three four-wheeled Hand Hose Carriages with five hundred feet of Hose on reel, one stationed in Pawtucketville, one at Ayers City, the other at the City Poor Farm.

FIRE ALARM TELEGRAPH.

This important branch of the service has been ably performed by the operator, George B. Whitney; the work of this branch is continuous and exacting, and great care has to be exercised to protect the wires from interference with the telephone and other wires; but the lines have been kept in perfect working order during the year; there are some two miles of old wire yet to be renewed. Connected with the service there are nine bell strikers, eleven Engine House Gongs, eight Engineers' Gongs, eleven Electrical arrangements for opening all doors, etc., eleven Registers, sixty-nine Signal Boxes, one six circuit non-interfering Repeater, one cut-out and testing Switch Board, eight Galvanometers, three hundred and twenty Cups of Battery, fifty-eight miles of wire and 468 poles. There was added to the system last year 1 bell striker, 8 boxes, 3 miles of wire and 45 poles. The committee of last year contracted

for the entire remodelling of the Fire Alarm System, at an expense of \$3750, making all boxes perfect non-interfering where heretofore there were in use four different styles of boxes, altering all bell strikers to the latest improved pattern, new coils, etc., and a new 10 circuit Repeater, Switch Board, Galvanometer, Arrester, etc., for the central office, as the 6 circuit Repeater was too heavily loaded to rely on it with safety, as the circuits were too long, being only 6 in number. With the new change we shall have as complete and efficient system as there is in use anywhere. I also recommend the erection of at least 6 signal boxes the present year; we have had some trouble by telephone wires coming in contact with Electric light wires, making a cross or connection with the Fire alarm wires, and in one instance nearly destroying the repeater; but in November the committee purchased of the National Protective Company of New York, enough protectors to protect the repeater and the Engine House Gongs, etc., from trouble with the electric light; it is a small instrument that carries off all the extra current, and I would recommend the purchase of enough more to protect all the boxes as the expense is slight compared with the damage that is liable to be done without them.

TELEPHONE.

The telephones are a great benefit to the department and to the Citizens who have notified the department of many fires the past year; there are connected with the system fifteen complete stations, thirteen extension bells;

about eleven miles wire, constructed, owned and maintained by the city, except the hand telephones and transmitters, which are rented from the telephone company.

HORSES AND HARNESES.

The number of horses belonging to the department is twenty-eight, in good condition; six (6) have been procured by change during the year. There are twelve pairs of double and six single harnesses, twelve Berry patent swinging harnesses.

HOSE.

There is in the Department at present 7500 feet cotton rubber-lined hose, 5000 feet leather, 1600 feet of rubber, making in all 14,100 feet. I would recommend the purchase of a certain amount each year, as a supply of good hose is a very essential thing.

HYDRANTS.

During the year thirteen new Post hydrants have been added and the two Flush discontinued and one taken out, making a total number of hydrants seven hundred and seventy for which this department was charged annually twenty dollars each; the Post hydrants added are located: 1 Baldwin, 1 South Loring, 1 West Pine, 1 La Grange, 1 Bartlett, 1 High, 1 Bowers, 2 Varnum Avenue, 1 Aiken Avenue, 1 School, 1 Anderson, 1 Lawrence.

The amount paid by this department for water last year was \$15,400.00, making the appropriation for Water and Fire Departments \$80,400.00.

PROTECTIVE DEPARTMENT.

This organization consists of one company of seven men, four of whom are permanent; one wagon drawn by two horses, fully equipped with all the paraphernalia requisite for the protection of property from damage by water, and are maintained by the city. This company has spread one hundred and eighty-five blankets the past year, used hand grenades eighteen times, and the extinguishers sixty-five times. Hours of service, seventy-nine. The promptness and efficiency of this department have been the means of saving much valuable property the past year.

CHEMICAL ENGINE.

Organized in 1885, and consists of one company of four permanent men; one double tank Engine, holding seventy-five gallons each, of the Perkins pattern, built by the Chicago Extinguisher Company, and drawn by two horses. It has given very good satisfaction.

HOUSES.

There will be repairs needed in some of the houses, a new floor will be laid in Steamer 3's house and Hose 5's. The lumber is now in the dry house; there will be some slight repairs needed in some of the other houses. The new house contracted for for Hose 6 will be ready for occupancy about the first of March.

FIRES AND LOSSES.

I have the pleasure of repeating that the year just closed has been one of remarkable exemption from losses by fire; the promptness with which alarms have been given, and the prompt response by the Department, have prevented, in some cases, what threatened to be serious conflagrations. The whole number of alarms of fire that occurred during the year ending Dec. 31, 1886, was 95, of which 58 were given from signal boxes, 11 by telephone, and 26 still alarms, showing an increase of 7 over last year; the telephone and still alarms were attended by the apparatus and men of the Department, and by their timely arrival and without alarming the whole city by sounding a bell alarm, have, in some instances, prevented serious fires. The whole amount of loss by fires as near as can be ascertained, was only \$23,960.16; the whole amount of insurance was \$141,607.00, the amount of insurance paid was \$23,870.16, making the whole amount of loss above insurance \$90.00, which fully sustains the reputation of the Department for promptness and efficiency; there has been a few incendiary fires; but a large proportion of them have been caused by carelessness. The Department has responded to two fires out of the City, one Aug. 21st at 10.30 P. M., was a House and in North Chelmsford. Assistance called for from Haverhill, a portion of the Department was loaded on cars ready to proceed, but a telegraph dispatch was received stating that the fire was under control. There has been no serious casualties the

past year and no death in the Department. One death by burning, Mrs. M. Hayes, caused by the explosion of an oil can.

LOWELL FIREMEN'S FUND ASSOCIATION.

This benevolent association was organized December 17th, 1853, for the purpose of affording relief to such of its members as should receive injuries while in the discharge of their duties; the importance of this association to the Department cannot be overestimated. The income is derived by an annual assessment upon each member; by donations from citizens and others; and in behalf of the association I would return thanks to those citizens who have aided them in the past.

Cash on hand May 1, 1886.....	\$10,028 45
Received to Jan. 1, 1887.....	270 70
	<hr/>
	10,599 15
Paid out to Jan. 1, 1887.....	46 00
	<hr/>
Balance Jan. 1, 1887.....	\$10,553 15

I would recommend that an ordinance should be passed, regulating the sale of kerosene, or so-called non-explosive fluids; also our building laws are very imperfect, and in fact we have none. We have a small fire-district; but citizens wishing to make additions or enlargements of their buildings apply to the Board of Aldermen for a license which is usually granted; and new buildings which are being built in the district are not looked after by any one, and consequently are not built

strictly after the ordinance; and outside of the district persons erect large four and five-story wooden buildings for stores and tenements, without a fire-wall or fire-escape, and in many cases with only one very narrow stairway to the upper stories, which are nothing more than a death-trap for those who occupy them. Another trouble arises from the bad construction of some of our chimneys, and in parts of the city a hole cut through the roof or side of a building, with a stove pipe stuck through for a chimney; not only endangering their own, but the adjoining property to destruction. The infrequency of fire the past year ought not to make us unmindful of our duty, looking to the safer protection of the future of our city. There should be stringent building laws made, both in regard to the nature and construction of buildings, and for an Inspector of Buildings, whose duty it should be to examine and approve the plans of all buildings, and to see that the conditions prescribed by the laws are complied with as regards the public safety; and who should have power to remove dangerous buildings and structures.

In conclusion of this, my annual report to your honorable body, I desire to express to you my warm appreciation and sincere thanks for your various actions, by which the department has secured greater efficiency and skill to cope with fires. Our relations have been most cordial during the year just closed, and for all this, and your support of such measures as I have thought fit to suggest for the improvement of the Department, I am under obligations to you. I also wish to tender the

Superintendent of Fire Alarms my respects for the continued improvement he has made in our system of receiving alarms, and for his endeavors to second all steps tending toward a higher degree of efficiency. My present assistants are capable men, whom I have always found at the post of duty; and I am under obligations to them for their cheerful and well-directed efforts to secure first-class work. The members of the Fire Department are intelligent, industrious men, who have not flinched in the hour of danger, and who have made constant efforts to improve in their methods of work. I can sincerely praise them for the record made in 1886. My thanks are also due to the Committee on Fire Department, for their hearty co-operation to all matters tending to the improvement of the Department; to the Marshal and other members of the Police Force, for their valuable assistance at fires and on other occasions; to the City Clerk, Auditor, Treasurer, Superintendents of Streets and Water Works, and all other officials with whom I have had pleasant intercourse.

Respectfully Submitted,

THOMAS J. FARRELL,

Chief L. F. D.

FIRE DEPARTMENT.

JANUARY, 1887.

CHIEF ENGINEER.

THOMAS J. FARRELL.....Residence, 100 Bridge Street.

ASSISTANT ENGINEERS.

JAMES F. NORTON,.....Residence, 361 Central Street.

CHARLES W. MARRIOTT,.....Residence, 393 Middlesex Street.

EDWARD MELOY,.....Residence, 86 Charles Street.

GEORGE F. SALMON,.....Residence, 122 Cross Street.

TELEGRAPH OPERATOR.

GEORGE B. WHITNEY,.....Residence, 80 Middle Street.

COMMITTEE ON FIRE DEPARTMENT FOR 1887.

Aldermen, DONAHOE and PUFFER.

Councilmen, LEARY, DRURY, McKENNA.

HOPE STEAM FIRE ENGINE COMPANY.—NO. 1.

ELEVEN MEMBERS.

HOUSE ON GORHAM STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
15....	Foreman.....	C. D. Foley.....	32	Carpenter.....	31 Newhall St.
12....	Assistant Foreman.	J. J. Jennings.....	30	Laborer.....	11 Kinsman St.
1....	Clerk	G. W. Lovett.....	36	Driver.....	Engine House.
17....	Engineer	T. McNamara.....	42	Machinist.....	52 Chambers St.
11....	Assistant Engineer.	J. Angluin.....	29	Laborer.....	41 Whipple St.
19....	Hoseman.....	G. M. Cleary.....	36	Manufacturer	Engine House.
10....	"	T. Crowley.....	39	Permanent.....	Engine House.
16....	"	T. Caruthers.....	41	Stamper	31 Bleachery St.
14....	"	P. Curtin	34	Moulder	11 Basset St.
13....	"	S. O. Connell.....	35	Plasterer.....	224 Gorham St.
18....	"	T. Collins.....	30	Mason.....	25 Chapel St.

Schedule of Property Belonging to the City, in Care of Steam Fire
Engine Company No. 1.

Steamer built by Union Machine Co., of Fitchburg, Mass., in 1872 ; has two double-acting steam cylinders 7 1-8 inches in diameter, 8 inches stroke ; 2 double-acting pumps 4 3-8 inches in diameter, arranged to work separately or together ; weight when loaded, 7,575 pounds. One two-horse hose carriage, built by the Amoskeag Company of Manchester, N. H. ; 1 pair horses, 1 two-way chuck, 1 four-way chuck, 1 branch connection, 2 hose pipes with stop nozzles, 500 feet 2 1-2 inch leather hose, 1,300 feet 2 1-2 inch cotton hose, rubber lined ; 50 feet 1 inch cotton hose, 1 2 1-2 inch brass cap, 5 x 2 1-2 reducer, 4 small reducers, 12 spanners, 6 lanterns, 3 wrenches, 6 ladder straps, 5 iron bars, 2 axes, 1 bucket, 1 traverse-runner hose sleigh, 1 fuel wagon, 1 pair lead bars, 1 set double harnesses, 1 pair horse blankets, 1 pair hoods, 1 set blocks and tackle, 4 beds and bedding, 1 mirror, 2 bureaus, 28 chairs, 3 shovels, 2 forks, 2 brooms, 1 30-foot rope, 1 pail, 2 ladders, 1 steam boiler, 1 coal hod, 1 iron ash hod, 4 coal boxes, 1 clock, 1 jackscrew, 1 work bench and vise, 4 spittoons, 1 chisel, 2 sets shafts, 3 oil cans, 1 carriage jack, 1 copper gooseneck, 1 basket, 1 boiler, radiator, etc., 13 badges, 11 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

TORRENT STEAM FIRE ENGINE COMPANY.—NO. 2.
TWELVE MEMBERS.
HOUSE ON BRANCH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
20....	Foreman	A. C. Stearns.....	46	Permanent.....	Engine House.
21....	Assistant Foreman...	J. W. Abbott.....	40	Carpenter.....	7 Goward Court.
2....	Clerk	H. Boynton.....	35	Driver Hose Carriage.....	Engine House.
90....	Driver	M. J. Burns.....	35	Driver Steamer.....	Engine House.
28....	Engineer.....	G. Maddocks.....	42	Machinist.....	Engine House.
29....	Assistant Engineer...	C. S. Hibbert.....	41	Permanent.....	Engine House.
22....	Hoseman.....	H. R. Morrison.....	27	Machinist.....	Cor. Middlesex St.
24....	"	F. Poynton.....	25	Machinist.....	Engine House.
23....	"	F. B. Akers.....	32	Machinist.....	Woodbury St.
27....	"	A. S. Maynard.....	34	Carpenter.....	16 East Pine St.
25....	"	G. A. Bennett.....	46	Roofer	Carlton & Marsh'l
26....	"	F. A. Johnson.....	30	Painter	East Pine St.

Schedule of Property Belonging to the City, in Care of Steam Fire
Engine Company No. 2.

Steamer built by Blood Locomotive Works, Manchester, N. H. weight when loaded 7,600 lbs., 6 7-8 inch cylinder; 8 inch stroke; 4 1-4 inch doubling-acting pumps. Two-horse hose carriage built by Leverich & Co., of New York; 500 feet 2 1-2 inch leather hose, 1,500; feet 2 1-2 inch cotton hose (rubber lined), 75 feet 1-inch cotton hose, 1 hose sleigh, 1 wagon, 1 traverse-runner sled, 4 horses, 2 sets double harnesses, 1 single harness, 5 blankets, 3 hoods, 1 two-way chuck and reducer, 1 four-way chuck, 1 branch connection, 2 hose pipes with stop nozzles, 6 spanners, 6 ladder straps, 2 hydrant wrenches, 2 axes, 2 bars, 1 jackscrew, 2 pair lead bars, 6 coal boxes, 17 arm chairs, 12 cane-seat chairs, 3 mirrors, 2 bureaus, 1 clock, 1 work bench and vise, 6 beds and bedding, 1 steam boiler, radiators, etc., 1 set blocks, 5 ash hods, 1 table, 15 badges, 15 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer, 1 pair skids for loading steamer on to a car, trigs, etc., 1 heater.

WAMESIT STEAM FIRE ENGINE COMPANY.—NO. 3.

HOUSE ON MIDDLE STREET.

ELEVEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
30....	Foreman.....	F. Hoyt.....	38	Permanent.....	Engine House.
35....	Assistant Foreman..	D. W. Hilliard.....	36	Carpenter.....	Staples St.
3....	Clerk.....	J. Cowell.....	39	Permanent.....	Engine House.
33....	Engineer.....	E. L. Brown.....	50	Machinist.....	120 Merrim'ck C.
34....	Assistant Engineer..	J. G. Merchant.....	48	Engineer.....	188 Westford St.
32....	Hoseman.....	A. C. Walton.....	48	Manufacturer	48 Mass. Corp.
37....	"	F. Roark.....	37	Lighter.....	Middle St.
38....	"	A. Kennedy.....	29	Painter.....	Bridge St.
39....	"	W. H. Dana.....	28	Machinist.....	1 Machine Corp.
31....	"	G. Halstead.....	29	Painter.....	Washington St.
36....	"	W. H. Landers.....	28	Machinist.....	Engine House.

Schedule of Property Belonging to the City, in Care of Steam Fire
Engine Company, No. 3.

Steamer built by Hunneman & Co., in 1866 ; weight when loaded, 7,650 lbs. ; 30 feet suction hose with hydrant couplings, 1 hose carriage with shafts and poles, 1 hose sleigh, 1 whiffletree, 2 horses, 2 pairs double harnesses, 4 halter bridles, 4 horse blankets, 2 hoods, 300 feet leather hose, 1,800 feet 2 1-2 inch cotton hose, (rubber lined), 2 two-way chucks and reducers, 1 four-way chuck, 1 reducer and cap, 2 pipes and stop nozzles, 2 branch connections, 2 hydrant wrenches, 4 spanners, 1 bar, 2 shovels, 4 ladder straps, 6 lanterns, 4 beds and bedding, 2 mirrors, 1 clock, 20 chairs, 1 hose rope, 1 jackscrew, 1 monkey wrench, 1 carriage jack, 1 steam boiler, radiators, etc., 11 badges, 11 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

MAZEPPA HOSE COMPANY.—NO. 14.

HOUSE ON FAYETTE STREET.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
41....	Foreman	John J. Quinlan.....	34	Machinist.....	22 Bartlett St.
40....	Assistant Foreman...	Edwin J. Little.....	40	Permanent.....	Hose House.
4....	Clerk.....	William King	44	Driver	Hose House.
45....	Hoseman	Charles Morse.....	45	Finisher.....	88 Fayette St.
47....	"	J. E. Burns.....	26	Meat Market.....	7 Prescott Corp.
44....	"	Michael Connor.....	35	Plasterer	55 Pleasant St.
42....	"	J. E. Sullivan.....	34	Mason.....	116 Fayette St.
43....	"	James Dolan.....	46	Painter.....	41 High St.
46....	"	J. P. Smith.....	23	Clerk.....	77 Water St.

Schedule of Property Belonging to the City, in Care of Hose Company
No. 4.

One two-horse hose carriage, built by the Abbott-Downing Co., of Concord, N. H.; 2 horses, 2 harnesses, 3 blankets, 1 four-way chuck, 1 two-way chuck, 2 hydrant wrenches, 3 hose pipes and 2 stop nozzles, 8 spanners, 1 branch connection and cap, 4 reducing couplings, 3 bars, 5 ladder straps, 8 lanterns, 1 monkey wrench, 50 feet 3-4 inch rubber hose, 950 feet 2 1-2 inch rubber hose, 300 feet 2 1-2 inch leather hose, 1 carriage jack, 2 clocks, 2 mirrors, 2 stoves, 1 table, 1 flag, 1 ladder, 10 chairs, 1 ash hod, 1 coal sifter, 1 duster, 2 shovels, 3 water pails, 1 S wrench, 5 spittoons, 1 map, 1 hose sleigh, 1 fuel wagon, 3 beds and bedding, 2 bureaus, 11 badges, 9 sets regulation buttons and all tools for cleaning horses.

WELLMAN HOSE COMPANY.—NO. 5.

HOUSE ON FOURTH STREET, CENTRALVILLE.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
50....	Foreman	C. F. Hemmenway.....	37	Permanent.....	Engine House.
57....	Assistant Foreman...	H. A. Merrill.....	24	Piper	Engine House.
5.....	Clerk.....	A. E. Kidder... ..	31	Driver	Engine House.
54....	Hoseman.....	Alphonso Merrill.....	50	Truckman.....	29 Fifth St.
53....	"	Herbert Miller.....	33	Piper	93 Bridge St.
52....	"	J. W. Jantzen.....	37	Machinist	100 Bridge St.
55....	"	Frank Mansur.....	37	Carpenter	9 Fourth St.
56....	"	Edward Boyle.....	41	Truckman.....	49 River St.
51....	"	E. L. Hewes.....	25	Tinsmith.....	29 Fifth St.

Schedule of Property Belonging to the City, in Care of Hose Company,
No. 5.

One two-horse hose carriage, built by Manchester Locomotive Works; 1 horse hose carriage, built by J. J. Wright & Co., loaded with 400 feet leather hose kept in reserve; 2 horses, 3 harnesses, 2 bridles, 500 feet 2 1-2 inch leather hose, 1,400 feet 2 1-4 inch cotton hose, (rubber lined), 50 feet 3-4 inch rubber hose, 2 hose pipes and stop nozzles, 1 spray, 1 reducer, 1 wooden pail, 20 chairs, 4 beds and bedding, 1 reducing coupling, 1 cap, 8 spanners, 2 wrenches, 6 lanterns, 2 bars, 1 ladder, 1 axe, 1 carriage jack, 3 shovels, 3 brooms, 2 forks, 1 clock, 1 duster, 1 sifter, 1 hose sleigh, 3 spittoons, 1 pair steps, 1 two-way chuck, 1 four-way chuck, 1 connection, 2 oil cans, 1 table, 140 feet 3-4 inch rope, 1 iron pulley, 1 set pulley blocks, 2 ash hods, 1 wagon, 3 horse blankets, 1 steam boiler, radiators, etc., 10 badges, 9 sets regulation buttons, and all tools for cleaning horses.

EXCELSIOR HOSE COMPANY.—NO. 6.

HOUSE ON CENTRAL STREET.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
61....	Foreman	E. Cunningham.....	39	Gas Fitter.....	82 Charles St.
62....	Assistant Foreman...	R. O'Connell.....	31	Plumber	77 Chapel St.
6....	Clerk.....	E. O'Connell.....	29	Driver	Hose House.
60....	Hoseman	C. Riley.....	31	Permanent.....	Hose House.
63....	"	J. Blackburn.....	29	Plumber	29 Elm St.
64....	"	P. Emerson.....	28	Carpenter	2 Madison St..
66....	"	A. Gibson.....	31	Painter	10 Cady St.
67....	"	D. Crowley.....	35	Carpenter	Hose House.
65....	"	E. Crowley.....	32	Coppersmith.....	28 Cady St.

Schedule of Property Belonging to the City, in Care of Hose Company
No. 6.

One two-horse hose carriage built by Manchester Locomotive Works ; 1 hose sleigh, 2 horses, 2 harnesses, 2 blankets, 2 forks, 2 brooms, 3 beds and bedding, 700 feet leather hose, 700 feet rubber hose, 3 pipes, 2 stop nozzles, 6 lanterns, 1 axe, 1 two-way chuck, 1 four-way chuck, 1 reducer, 2 hydrant wrenches, 1 reducing coupling, 1 brass cap, 1 bar, 4 spanners, 3 ladder straps, 1 connection, 1 duster, 1 brush, 18 chairs, 4 spittoons, 1 mirror, 1 carriage jack, 50 feet 1-2 inch rubber hose, 2 clocks, 1 coal hod, 1 hose rope, 1 oil can, 2 shovels, 1 pail, 1 step ladder, 1 wagon, 1 carriage pole, 1 dressing case, 1 steam boiler, radiator, etc., 2 bridles, 11 badges, 9 sets regulation buttons, and all tools for cleaning horses.

MECHANICS HOSE COMPANY.—NO. 7.

HOUSE ON CORNER FLETCHER AND CLARK STS.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
70....	Foreman.....	David J. Hurley.....	35	Permanent.....	Hose House.
71....	Assistant Foreman...	E. W. Fletcher.....	33	Moulder.....	68 L. M.&S. Cor.
7....	Clerk.....	B. C. Reed.....	32	Driver	Hose House.
73....	Hoseman.....	J. H. Joyce.....	45	Moulder.....	17 Butterfield St.
77....	"	J. A. Fletcher.....	30	Moulder.....	11 Carleton St
72....	"	T. J. McDonald.....	34	Salesman.....	14 Franklin St.
75....	"	T. F. Welch.....	37	Cabinet Maker.....	49 Common St.
78....	"	J. J. Murrey.....	35	Cabinet Maker.....	292 Midd'sex St.
74....	"	D. W. Russell.....	33	Knitter.....	33 Bowers St.

Schedule of Property Belonging to the City, in Care of Hose Company
No. 7.

One two-horse hose carriage built by Manchester Locomotive Works; Steamer built by Hunneman & Co. in 1868, and 1 two-wheeled hose carriage kept in reserve; 2 horses, 1 hose sleigh, 2 harnesses, 1 halter, 1 bridle, 2 blankets, 1 hood, 1,500 feet 2 1-2 inch cotton hose (rubber lined), 2 pipes and stop nozzles, 10 spanners, 1 two-way chuck, 1 four-way chuck, 1 large and 1 small reducer, 1 bar, 3 brooms, 1 carriage jack, 2 pails, 1 connection with cap, 2 ladder straps, 1 duster, 1 ladder, 1 brush, 6 lanterns, 4 spittoons, 1 shovel, 17 chairs, 3 beds and bedding, 1 wagon, 2 axes, 1 ash hod, 1 clock, 1 mirror, 1 gas stove, 1 steam boiler, radiators, etc., 11 badges, 11 sets regulation buttons, and all tools for cleaning horses.

WILSON HOSE COMPANY.—NO. 8.

HOUSE IN PAWTUCKETVILLE.

TEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
91....	Foreman.....	C. E. Luscomb.....	49	Painter.....	Second Ave.
92....	Assistant Foreman...	J. L. Stevens.....	37	Mason.....	1 Poplar St.
94....	Clerk.....	J. W. Cassidy.....	44	Dry Goods.....	Mt. Grove St.
95....	Hoseman.....	J. P. Fowler.....	38	Carpenter.....	Fourth Ave.
96....	"	A. F. Cogger.....	42	Blacksmith.....	Fourth Ave.
97....	"	A. H. Vining.....	43	Carpenter.....	Mammoth St.
98....	"	C. H. Luscomb.....	28	Pedler.....	Second Ave.
99....	"	Hiram Vining.....	40	Carpenter.....	Fourth Ave.
93....	"	Geo. H. Henderson.....	37	Carpenter.....	Meadow Road.
115...	"	A. J. Mitchell.	33	Harness Manufacturer.....	Meadow Road.

Schedule of Property Belonging to the City, in Care of Hose Company,
No. 8.

One hose carriage, 750 feet of hose, 1 stove, 1 coal hod, 4 kerosene lamps, 10 chairs, 1 table, 2 pipes, 1 two-way chuck, 1 carriage jack, 1 axe, lanterns, etc., 10 badges, 10 sets regulation buttons.

LAMSON HOSE COMPANY.—NO. 9.

TEN MEMBERS.

HOUSE AT AYERS CITY.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
58....	Foreman	F. Craggy.....	26	Blacksmith.....	126 Howard St.
49....	Assistant Foreman...	J. Hendricks.....	30	Currier.....	1 Main St.
79....	Clerk.....	C. Webster.....	31	Carpenter	London St.
48....	Hoseman	P. Webster.....	37	Carpenter	London St.
59....	"				
69....	"	J. Baxter.....		Machinist.....	2 Blossom St.
86....	"	J. Wilkins.....		Machinist.....	6 Main St.
87....	"	C. Greenleaf		Carpenter.....	Main St.
88....	"	J. Haley.....		Currier	8 Blossom St.
89....	"	P. Moore.....		Grocery Dealer.....	178 Lincoln St.

Schedule of Property Belonging to the City, in Care of Hose Company,
No. 9.

One hose carriage, 900 feet leather hose, 2 pipes, 1 two-way chuck, 3 wrenches, 3 spanners, 2 ladders, 2 stoves, 1 table, 4 lamps, 2 lanterns, 9 chairs, 2 brooms, 10 badges, 10 sets regulation buttons.

FRANKLIN HOOK AND LADDER COMPANY.—NO. 1. HOUSE ON MIDDLE STREET.

FIFTEEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
102...	Foreman	H. B. Downs.	52	Carpenter	47 Hamilton Cor.
101...	Assistant Foreman	F. E. Fuller.	38	Permanent	H. & L. House.
104...	Clerk	W. L. Peabody.	38	Driver..	H. & L. House.
105...	Ladderman	N. Bishop	48	Spinner	26 Lawrence Cor.
106...	"	H. C. Daggett.	60	Carpenter.	6 Prescott Cor.
108...	"	J. A. Pullen.	58	Machinist.	161 Merrimack C.
109...	"	H. S. Gardner	35	Moulder.	125 Worthen St.
112...	"	C. M. Brooks.	36	Carpenter	44 Merrimack C.
114...	"	Geo. Sargent.	33	Carpenter	West Fourth St.
113...	"	F. W. Simons.	35	Bill Poster.	Merrimack St.
107...	"	H. C. Fernald.	33	Permanent	H. & L. House.
110...	"	Wm. Marsden.	33	Painter	48 Mass. Cor.
103...	"	C. W. Dana.	31	Machinist	74 L. M. S. Cor.
108...	"	C. Stackpole.	29	Clerk	66 School St.
111...	"	J. S. Anderson.	36	Merchant	Bowers St

Schedule of Property Belonging to the City, in Care of Hook and
Ladder Company No. 1.

Hook and ladder truck with tiller, built by Buckley & Merritt, New York, 1 Bangor ladder, 65 feet, 1 40 feet, 1 36 feet, 1 25 feet, 1 20 feet, 2 30 feet each; 2 roof ladders, 15 and 25 feet; 1 12-foot ladder, 4 forks, 4 axes, 4 buckets, 9 lanterns, 2 shovels, 1 bunter, 1 bar, 1 wrench, 2 horses, 1 set double harnesses, 4 blankets, 1 fuel wagon, 1 traverse runner sleigh, 10 hooks, 20 feet 1-2 inch rubber hose, 100 feet rope, 8 chairs, 2 brooms, 1 mirror, 1 steam boiler, radiator, etc., 3 beds and bedding, 17 badges, 15 sets regulation buttons, and all tools for cleaning horses.

GEORGE HOBSON HOOK AND LADDER COMPANY.—NO. 2. HOUSE ON MIDDLE STREET.

TEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
122...	Foremann	H. W. Burton.....	45	Wire Worker.....	4 Kimball Court.
121...	Assistant Foreman...	Geo. A. Alcott.....	33	Permanent.....	H. & L. House.
120...	Clerk	H. J. Foster.....	37	Driver.....	H. & L. House.
123...	Ladderman.....	D. Pickman..	63	Machinist.....	52 Pleasant St.
124...	"	C. Thompson.....	33	Carpenter.....	25 Varney St.
125...	"	J. Farrell.....	34	Machinist.....	71 Common St.
126...	"	W. N. Flagg.....	41	Carpenter.....	119 Merrim'k St.
127...	"	E. Bartlett.....	39	Carpenter.....	27 Fletcher St.
128...	"	E. Kerwin.....	37	Piper.....	8 Cady St.
129...	"	T. McCormick.....	32	Line Manufacturer.....	94 River St.

Schedule of Property Belonging to the City, in Care of Hook and Ladder Company, No. 2.

Hook and ladder truck, built by Juckett & Freeman, of Boston ; 1 Bangor and 1 Leverich ladder, each 55 feet long ; 2 roof ladders, 1 18 feet and 1 16 feet long ; 5 other ladders, 2 32 feet, 2 22 feet and 1 12 feet long ; 6 props, hooks, 4 axes, 2 adjustable hooks for roof ladders, 3 shovels, 3 lanterns, 3 forks, 3 rakes, 1 bar, 1 bunter, 1 Siamese connection, 200 feet rope, 2 pails, 2 whips, 1 carriage jack, 13 chairs, 1 table, 1 mirror, 2 clocks, 1 duster, 1 brush, 50 feet 3-4 inch hose, 2 horses, 2 harnesses, 2 blankets, 2 halter bridles, 3 beds and bedding, radiators, etc., 12 badges, 12 sets regulation buttons, and all tools necessary for cleaning horses.

PROTECTIVE COMPANY.—NO. 1.

SEVEN MEN.

HOUSE ON WARREN STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
80....	Foreman	J. L. Flagg	50	Permanent	Protective House
83....	Assistant Foreman..	W. P. Wiley	33	Bleacher	96 Merrimack St.
8....	Clerk	J. J. Harrington	36	Driver	Protective House
82....		H. Coulam	33	Manufacturer	42 Hamilton Cor.
85....		L. S. Kimball	36	Roll Coverer	Protective House
81....		J. W. Halstead	38	Permanent	Protective House
84....		W. H. Halstead	42	Permanent	Protective House

Schedule of Property Belonging to the City, in Care of Protective Company No. 1.

One wagon complete, built by the Abbott Downing Co., of Concord, N. H.; 2 horses, one pair double harnesses, 2 horse blankets, 45 covers, 1 canvas blanket, 3 extinguishers, 65 feet 3-4 inch rubber hose, 3 paper pails, 3 large sponges, 4 brooms, 4 shovels, 2 axes, 4 squill-gees, 1 pick, 2 crowbars, 9 lanterns, 2 Johnson pumps, 25 lbs. vitrol, 50 lbs. of bicarbonate soda, 18 bottles for vitrol, 24 soda cans, 5 beds and bedding, 1 fire shovel, 1 monkey wrench, 1 carriage jack, 1 stable broom, 1 copper boiler, 2 stable pails, 3 spittoons, 2 mops, 1 desk, 2 bureaus, 14 chairs, 1 feather duster, 1 cha-mois skin, 2 oil cans, 1 mirror, 2 ash cans, 2 clocks, 1 sleigh complete, 75 feet of old rope, 1 lath rake, 1 steam boiler, radiator, etc., 11 badges, 11 sets regulation buttons and all tools for cleaning horses, 2 extra wheels, 1 pair steps for wagon, 1 set traverse runners, 1 set blocks, 1 fire escape, 1 Jack, 7 dozen hand grenades, 2 snow shovels, 1 traverse runner sleigh.

CHEMICAL ENGINE COMPANY.—NO. 1.

HOUSE ON MERRIMACK, CORNER RACE STREET.

FOUR MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
130...	Foreman.....	S. E. Bartlett.....	38	Permanent.....	Chemical House.
131..	Assistant Foreman...	W. J. Flynn.....	34	Permanent.....	"
132...	Clerk.....	J. A. Pierce.....	38	Driver.....	"
133...	Pipeman.....	J. Starr	30	Permanent.....	"

Schedule of Property Belonging to the City, in Care of Chemical Company No. 1.

One Chemical Engine manufactured by the Fire Extinguisher Manuf'g. Co., of Chicago, Ill., in 1885; 2 horses, 1 set double harnesses, 400 feet 1-inch rubber hose, 50 feet 1 1-2 inch supply hose, 2 pipes, 1 axe, 1 pick, 13 chairs, 4 beds and bedding, 1 table, 2 horse blankets, 2 clocks, 1 bureau, 1 indicator, 1 gong, 2 mirrors, 1 carpet and all tools for cleaning horses, 4 badges, 4 cap fronts, 4 sets regulation buttons.

Schedule of Property Belonging to the City, in Care of Fire Alarm Operator.

One six circuit automatic non-interference repeater, 1 cut out and testing switch-board, 8 galvanometers, 69 signal boxes (non-interfering), 9 bell strikers, 11 large gongs, 8 small gongs, 11 registers, 11 electrical arrangements for opening stall doors, etc., 69 miles wire, 325 cups Hill's battery, 15 magneto call bells, 18 battery cups, 325 zincs, 468 chestnut poles, 50 roof brackets, 15 key boards, arresters, etc., 50 glass insulators, 25 pole brackets, 24 call bells, 2 saws, 2 hammers, 2 screw drivers, 2 straps with vises, 2 draw straps and clutches, pliers, tongs, set bits and bit stock, 3 shovels, 2 bars, 1 pickaxe, 2 spoons, 1 tamping bar, 1 cant hook, 1 broadaxe, 2 pike poles, 3 pair climbers, 1 deadman, 3 ladders, 1-2 mile wire, 1 draw shave, fire alarm box keys, locks, outside shells and doors to boxes, pocket relay lanterns, tables, chairs, feather dusters, chamois skins, 1 horse, harness, blankets, etc., 2 wagons, 1 sleigh.

SUPPLY ROOM.—Mops, waste, lantern globes, sponges, harness, castile and washing soaps, sal soda, poliehing and harness oils, spanners, wrenches, brooms, pails, matches, washers, mane brushes, axle grease, emery cloth, rotten stone, candles, etc.

Schedule of Fires which Occurred in the City of Lowell During the Year Ending Dec. 31, 1886.

Date.	Time.	Signal.	Location.	Wood, Brick or Stone.	Total or Partial Loss.	Owned by	Occupied by	Occupied as	Amount of Damage.	Amount of Insurance.	Amount Insurance Paid.	Cause of Fires.	Remarks.
1886.													
Jan. 3,	12.03 p. m.	71	West Pine St.	Wood,	Partial.	G. McIntire,	Unoccupied,	Dwelling,	Slight.			Incendiary.	[tution.
" 5,	9.55 a. m.	6	Market St.	"	"	Donovan Bros.,	Donovan Bros.,	Meat market,	Slight.			Stove pipe set fire to par-	
" 9,	2.15 p. m.	Still.	Middle St.	Brick,	"	J. McCarty,	J. F. Handley,	Awning maker,	Slight.			Drying wood on stove.	Hose 3 responded.
" 10,	9.55 p. m.	5	Western Ave.	Wood,	"	B. & L. R. R.	S. K. Dexter,	Potato car,	Slight.			Defective oil stove.	
" 13,	2.45 p. m.	Still.	Chapel St.	"	"	J. Quinn,	J. Quinn,	Dwelling,	Slight.			Chimney.	Chemical responded.
" 14,	1.00 p. m.	"	Suffolk St.	"	"	A. Owens,	Families,	"	Slight.			"	
" 14,	6.15 p. m.	Tel.	Kinsman St.	"	"	E. Loomis,	"	"	"			"	
" 15,	3.00 p. m.	Still.	Prescott St.	Brick,	"	Southwick Heirs,	R. Smithson,	Unoccupied,	"			"	Protective responded.
" 25,	10.05 p. m.	28	Tucker St.	Wood,	"	Gaudette Bros.,	Families,	Tenement,	\$647 00	\$4,000 00	\$ 647 00	Caught from stove.	
" 27,	5.40 p. m.	25	Market St.	"	"	R. G. Bartlett,	"	"	"			Chimney.	
" 28,	6.05 p. m.	21	Merrimack St.	Brick,	"	Odd Fellows Block,	J. L. Loiselie,	Dry Goods Store,	150 00	9,000 00	150 00	Unknown.	
Feb. 3,	2.55 p. m.	61	Agawam St.	Wood,	"	T. Sullivan,	Families,	Dwelling,	35 00	1,500 00	35 00	Thawing water pipe.	
" 10,	11.50 p. m.	Tel.	North Chelmsford.	"	"	"	"	"	"			Incendiary.	
" 17,	12.45 a. m.	39	Noble's Court.	"	"	S. Noble,	"	"	200 00	600 00	200 00	Incendiary.	
" 17,	1.45 p. m.	53	Appleton St.	Brick,	"	C. Runels,	S. Smith,	Tenement,	"			Incendiary supposed.	
" 27,	2.40 p. m.	83	Smith St.	Wood,	"	J. Howe,	"	"	425 00	2,000 00	425 00	Chimney.	
" 27,	2.40 p. m.	83	Smith St.	"	"	"	Mrs. Rourke,	Boarding house,	272 30	800 00	272 30	"	
" 27,	2.40 p. m.	83	Smith St.	"	"	"	Smart & Frost,	Grocery store,	75 00	1,825 00	75 00	"	
" 27,	7.00 p. m.	Still.	Market St.	"	"	J. Bassett,	Families,	Tenement,	"			"	
" 27,	9.45 p. m.	Tel.	River St.	"	"	J. Clark,	"	"	"			"	
" 28,	6.40 p. m.	Tel.	East Merrimack St.	"	"	D. A. Swan,	D. A. Swan,	Dwelling,	"			Shingle took fire.	
" 28,	8.50 p. m.	21	Merrimack St.	Brick,	"	Heirs of J. Robbins,	"	Business block,	250 90	8,000 00	250 90	Unknown.	
" 28,	8.50 p. m.	21	Merrimack St.	"	"	"	C. H. Bixby & Co.,	Dry goods,	2,775 00	10,000 00	2,775 00	"	
" 28,	8.50 p. m.	21	Merrimack St.	"	"	"	J. W. Cassidy,	"	1,500 00	6,000 00	1,500 00	"	
" 28,	9.40 p. m.	63	Howard St.	Wood,	"	S. C. Eaton,	S. C. Eaton,	Dwelling,	499 50	2,800 00	499 50	Steam pipe.	
" 28,	8.50 p. m.	21	Merrimack St.	Brick,	"	Robbins Heirs,	G. Thatcher,	Store,	50 00	600 00	50 00	Unknown.	
Mar. 1,	10.50 p. m.	53	Hurd St.	"	"	P. Dempsey,	M. J. Hennessey,	Plumber,	12 26	1,000 00	12 26	Spontaneous comb.	
" 6,	2.20 a. m.	37	Whipple St.	Wood,	"	J. Monahan,	Families,	Tenements,	150 00	1,200 00	150 00	"	
" 6,	11.50 a. m.	131	Davidson St.	"	"	P. Fay,	M. McCabe,	"	8 00	1,000 00	8 00	"	
" 14,	2.07 p. m.	131	Cat Alley,	"	"	M. McManus,	Families,	"	"			Rags.	
" 15,	4.10 p. m.	39	Willie St.	"	"	P. Lynch,	"	Blacksmithing,	40 00	1,000 00	40 00	Sparks on roof.	
" 31,	7.55 a. m.	Tel.	Middlesex St.	"	"	J. Saunders,	Unoccupied,	Dwelling,	"			Unknown.	
April 2,	7.40 p. m.	27	Second Ave.	"	"	P. Mack,	P. Mack,	Stable,	225 00	552 00	225 00	Lantern exploded.	
" 3,	1.10 a. m.	61	Bolt St.	"	"	M. McNally,	Unoccupied,	Incendiary.	425 00	700 00	425 00	Chimney.	
" 10,	7.00 p. m.	131	Davidson St.	"	"	W. Fox,	Families,	"	"			"	
" 16,	8.00 p. m.	Still.	Gorham St.	Brick,	"	M. Sherman,	M. Sherman,	Saloon,	"			Protective responded.	
" 18,	6.30 p. m.	Still.	Chapel St.	Wood,	"	A. C. Wheelock,	Families,	Tenement,	"			Hose 6 responded.	
" 24,	5.53 a. m.	46	Nichols St.	"	"	C. Taisey,	C. Taisey,	Stable,	507 50	2,200 00	507 50	Bed.	
" 25,	4.50 p. m.	Still.	Lover's Lane.	"	"	"	"	"	"			Hot ashes.	
" 29,	5.45 p. m.	Still.	Western Ave.	"	"	P. Foye,	"	"	"			Brush.	Whitney, Fernald and Chief resp.
" 30,	7.45 a. m.	Tel.	Madison St.	Wood,	"	D. Cheeney,	"	"	"			Hay in car.	
" 30,	8.55 p. m.	28	Hall St.	Brick,	"	G. W. Harris,	"	"	"			Chimney.	
May 3,	7.00 a. m.	Still.	Middle St.	Wood,	"	W. Kittredge,	Colby & Co.,	Mill,	83 00	9,600 00	83 00	Hot chimney.	
" 14,	10.42 a. m.	Tel.	Franklin Court.	"	"	T. M. Elliott,	W. Kittredge,	Coal shed,	"			"	Hose 3, H. & L. responded.
" 21,	2.50 p. m.	61	Lawrence St.	"	"	O. A. Hall,	Mrs. Coburn,	Tenement,	"			"	
" 27,	4.15 p. m.	72	Middlesex St.	"	"	A. C. Wheelock,	J. Gregg,	"	"			"	
" 29,	8.48 a. m.	Still.	Suffolk St.	"	"	"	Families,	Tenement,	"			Bed.	Chemical responded.
" 30,	9.52 a. m.	31	Fayette St.	"	"	J. Kind,	"	"	"			Sparks set roof.	
June 2,	8.58 p. m.	5	Dutton St.	Brick,	"	A. L. Brooks,	"	Wood shop,	375 00	3,000 00	375 00	Combustion.	
" 2,	8.58 p. m.	5	Dutton St.	"	"	"	J. Welch,	Furniture maker,	738 00	1,000 00	738 00	"	
" 2,	8.58 p. m.	5	Dutton St.	"	"	"	Badger & Holmes,	Wood turner,	194 75	2,000 00	194 75	"	
" 2,	2.27 a. m.	Still.	Race St.	Wood,	"	E. J. Judkins,	E. J. Judkins,	Grocery,	"			Waste barrel.	Chemical responded.
" 21,	2.35 p. m.	63	Hale St.	"	"	E. Martel,	E. Martel,	Tenement,	"			Sparks on roof.	
" 29,	9.05 p. m.	5	Western Ave.	"	"	J. G. Sherburn,	"	Various,	1,473 15	7,650 00	1,473 15	Combustion.	
" 29,	9.05 p. m.	5	Western Ave.	"	"	"	J. C. Batchelder,	Sash and blind,	1,836 00	5,200 00	1,836 00	"	
" 29,	9.05 p. m.	5	Western Ave.	"	"	"	S. W. Fletcher,	"	400 00	2,000 00	400 00	"	
" 29,	9.05 p. m.	5	Western Ave.	"	"	"	C. D. Wilder,	Grain mill,	45 55	1,000 00	45 55	"	
July 1,	3.30 p. m.	Tel.	Dummer St.	Wood,	"	G. F. Scribner,	Families,	Tenements,	15 00	6,000 00	15 00	Fire in wood box.	
" 1,	4.40 p. m.	51	Gorham St.	"	"	J. Carroll,	J. Carroll,	"	27 00	1,800 00	27 00	Oil can exploded.	
" 2,	6.10 p. m.	Still.	Middle St.	"	"	W. P. Foye,	W. P. Foye,	Barn,	"			Children set hay on fire.	
" 4,	5.20 p. m.	14	Fayette St.	"	"	P. Mellen,	P. Mellen,	Tenement,	"			Fire crackers on roof.	
" 5,	5.30 a. m.	Still.	Clark St.	"	"	W. Goodale,	W. Goodale,	"	"			Barrel of rubbish.	
" 5,	1.23 a. m.	35	Church St.	"	"	A. V. Partridge,	"	Bill board,	"			Fire crackers.	
" 5,	5.35 a. m.	Still.	Central St.	"	"	"	"	"	"			"	
" 5,	8.45 a. m.	Still.	Central St.	"	"	"	"	"	"			"	
" 9,	5.45 p. m.	53	Haverhill.	"	"	"	"	"	"			Assistance called.	
" 9,	6.23 p. m.	Tel.	Grove St.	"	"	E. J. Medina,	"	Play house,	"			Japanese lantern.	
" 10,	11.30 a. m.	Still.	Middle St.	Brick,	"	J. M. G. Parker,	Families,	Tenement,	"			Straw in cellar set fire.	
" 13,	4.00 p. m.	83	Barclay St.	Wood,	"	W. B. Felch,	W. B. Felch,	"	600 00	1,200 00	600 00	Fire crackers.	
" 13,	7.15 p. m.	81	Wilder St.	"	"	G. A. Clany,	Unoccupied,	"	"			Set by boys.	
" 30,	4.45 p. m.	Still.	Lawrence St.	"	"	E. Hapgood,	E. Hapgood,	Shoddy mill,	"			Caught from picker.	
Aug. 13,	6.50 p. m.	56	Middle St.	Brick,	"	P. J. Smith,	P. J. Smith,	Junk shop,	1,895 00	3,000 00	1,895 00	Combustion.	

ing the Year Ending Dec. 31, 1886.

Date.	Time.	Amount of Damage.	Amount of Insurance.	Amount Insurance Paid.	Cause of Fires.	Remarks.
1886.						
Aug. 14,	5.45				Incendiary.	
" 19,	9.35	1,500 00	1,500 00	1,500 00	Overheating. [matches.	
" 26,	3.15				Children playing with	
Sept. 20,	5.20				Combustion.	
" 29,	9.30				Chimney.	
" 30,	7.15				Rubbish.	
" 30,	11.30					
Oct. 2,	7.20	292 25	1,400 00	292 25	Sparks on roof.	
" 3,	3.00					
" 9,	6.00				[fire.	
" 18,	5.40				Gas jet set mouldings on	
" 19,	7.00	25 00			Caught in partition un-	
" 19,	7.00	25 00			[known.	
" 20,	9.40				Oil can expl'n, [woman	
" 21,	8.47	600 00	600 00	600 00	" [died next morning.	
" 28,	9 00				Combustion.	
" 29,	6.00				Chimney.	
Nov 3,	12.10				Meat on stove burnt.	
" 21,					Unknown.	Chemical responded.
" 21,	5.55	90 00	100 00	90 00	Incendiary.	
" 25,	5.00				Chimney.	Salmon and Fernald resp.
" 26,	9.15					
" 27,	4.30	60 00	1,500 00	60 00	Chimney.	
Dec. 3,	7.30	610 00	7,000 00	610 00	Unknown.	
" 3,	7.30	5,300 00	11,000 00	5,300 00		
" 6,	12.50				Chimney.	Norton and Hose 6 resp.
" 9,	11.20				"	Chemical responded.
" 21,	10.40				Bed. [hot stove.	
" 22,	9.40				Clothing took fire from	
" 23,	4.40				Gas jet set fire to waste.	
" 23,	6.00				Lamp Explosion.	
" 25,	12.50	410 00	21,000 00	410 00	Oil Stove.	
" 25,	12.50	578 00	1,800 00	578 00	"	

\$70 16.

Loss above Insurance, \$90.00.

Schedule of Other Property Belonging to the Department.

One horse, wagon, sleigh and harness, for the Chief Engineer's use; 2 spare horses, 1 four-wheeled hand hose carriage, 1 two-way chuck, 1 gooseneck and other tools for working on hydrants. There are also at the Chief's office, 1 desk, set of drawers, table, 16 chairs, 1 respirator, 1 silver and 2 brass trumpets with case, looking glass, 1 wardrobe, 1 bed lounge, carpet, department badges and buttons, lanterns, water gauge, 1 set dies for department badges, 3 sets dies for regulation buttons, etc. The value of the foregoing property is \$119,850.00.

FIRE ALARM TELEGRAPH.

Location, Engine House, Middle St.

GEORGE B. WHITNEY, OPERATOR.

Six Circuit Automatic Repeater, with Battery of.....	315	Cups.
Miles of Line Wire.....	55	
Signal Boxes.....	61	
Engineer's Gongs.....	14	
Engine House Gongs.....	11	
Indicators	11	
Strikers	8	

The strikers are located as follows: Police Station, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Church, No. 7 Hose House.

The standard time is struck at one o'clock P. M. each day by Harry Raynes.

One stroke dismisses, two strokes call out the entire department.

MAGNETO BELL TELEPHONE CIRCUIT.

Complete Stations..... 15

Extension Bells for sleeping rooms..... 13

Miles Wire..... 11

GENERAL RUNNING ORDERS.

The companies will respond to alarms of fire given from boxes as indicated on the running card.

The Chief, First Assistant and Protective Company will answer alarms from all boxes.

When an alarm of fire is given all companies not responding will remain at their houses thirty minutes, unless dismissed by telegraph signals, viz : One blow on the engine house gongs and alarm bells will be understood as proclaiming the fire extinguished, and the companies not attending be dismissed ; two strokes will constitute a general alarm, and all companies will respond immediately, after waiting 30 seconds to be sure that it is not an alarm from another box. After a first alarm is given and before the recall signal is struck, should an alarm be given from another box, all unemployed companies will respond after waiting twenty seconds.

Signal Boxes, Companies and Engineers Responding to Alarms.

LOCATION OF SIGNAL BOXES.	HOSE COS'.	STEAMER	H. & L.		ENGINEERS.
3.—Corpor Broadway and Mt. Vernon.....	1, 2, 3, 7	2, C.	1		M. S.
4.—Dutton Street, opposite Parker & Cheney's.....	2, 3, 4, 6, 7	1, 2, C.	1, 2		M. S. Me.
5.—Corner of Cushing and Fletcher Streets.....	1, 2, 3, 5, 7	2, C.	1, 2		M. S. Me.
6.—Corner of Little and Lewis Streets.....	3, 4, 5, 7	C.	1		M. S.
7.—Corner of Market and Dutton Streets.....	3, 4, 5, 7	C.	1		S. Me.
8.—Corner of Westford and School Streets.....	1, 2, 7	2, C.	2		M.
9.—Corner of Common and Salem Streets.....	2, 3, 7	C.	1		S.
12.—Market Street; Police Station.....	3, 4, 5, 6	C.	1, 2		S. Me.
13.—Corner of Prescott and Merrimack Streets.....	3, 4, 5, 6	C.	1, 2		Me.
14.—Corner Fayette and Andover Streets, Belvidere.....	3, 4, 5, 6	..	2		Me.
15.—Bleachery Street, on Bleachery Stable.....	1, 3, 4, 6	2	2		Me.
16.—Hosford Square; Chapel Hill.....	1, 4, 5, 6	..	1		M. & Me.
17.—Corner Middlesex and Walker Streets.....	1, 2, 7	2	1		M.
18.—Junction of Hale and Lincoln Streets.....	1, 2, 3, 7, 9	2	2		M.
19.—Corner Union and Gorham Streets.....	1, 3, 5, 6	C.	1		M. Me.

Signal Boxes, Companies and Engineers Responding to Alarms.—Continued.

LOCATION OF SIGNAL BOXES.	HOSE CO.'S	STEAMER	H. & L.	ENGINEERS.
21.—Corner of Kirk and Merrimack Streets.....	3, 4, 5, 6, 7	C.	1, 2	S. Me.
23.—Corner Coburn and River Streets, Centralville.....	3, 4, 5	C.	1	Me.
24.—Corner of Middlesex and South Streets.....	1, 2, 5, 6	2, C	1	M. Me.
25.—Merrimack Street; Tremont House.....	3, 4, 5, 7	C.	1	S.
26.—Corner Fletcher and Pawtucket Streets.....	2, 3, 7, 8	C.	1	S.
27.—Riverside and Mammoth Streets, Pawtucketville.....	2, 3, 7, 8	2, C.	2	S.
28.—Corner of Hall and Aiken Streets.....	2, 4, 5, 7	2, 3, C.	1	M. S.
29.—Corner Tenth and Myrtle Streets, Centralville.....	4, 5, 6	3, C.	2	Me.
31.—Corner of High and East Merrimack Streets, Belvidere.....	3, 4, 5, 6	C.	1	Me.
32.—Corner of Bridge and Tenth Streets, Centralville.....	3, 4, 5	..	2	Me.
33.—Corner Broadway and Walker Streets.....	1, 2, 3, 7	1, 2	1	S.
34.—Lincoln Street, on Tannery; Ayer's City.....	1, 2, 3, 6, 9	2	2	M. S.
35.—Corner Charles and Lawrence Streets.....	1, 4, 5, 6	..	1	Me.
36.—City Farm, on Pole....	1, 2, 6, 7	2, C.	2	Me.
37.—Corner of Whipple and Kinsman Streets.....	1, 4, 6	2.	2	Me.

38—Fair Ground; on building.....	I, 2, 6	2	2	Me.
39—Corner Fletcher Street and Broadway.....	I, 2, 3, 7	I, 2, C.	1	S.
41—Corner Wyman and Nesmith Streets, Belvidere.....	4, 5, 6	2	2	Me.
42—Middlesex Street; old Engine House.....	I, 2, 3, 6, 7	I, 2, C.	I, 2	M. S.
43—Highland Street; Edson School House.....	I, 2, 6	2	2	Me.
45—Engine House; Branch Street.....	I, 2, 7	..C.	2	M.
46—Corner Bridge and First Streets, on Pole.....	3, 4, 5, 6	..C.	2	Me.,
47—Andover Street, near B. F. Butler's driveway.....	3, 4, 5, 6	..C	2	Me.
48—Corner Dover and Grove Streets.....	I, 2, 7	2 C.	2	M.
49—Corner Chestnut and Nesmith Streets.....	4, 5, 6	C	2	Me.
51—Junction Gorham and Thorndike Streets.....	I, 3, 4, 6	2	1	M.
52—Corner of Austin and Moody Streets.....	2, 3, 5, 7, 4	2, C	1	S. M.
53—Central Street; Boston and Maine Depot.....	I, 3, 4, 5, 6	2, C	I, 2	M. Me.
54—School Street; near Gas Works.....	2, 3, 7	I, 2, C.	1	M. S.
56—Middle Street; Engine House.....	3, 4, 5, 6	C.	1, 2	S. Me.
57—Warren Street, opposite George Street.....	2, 3, 4, 5, 6	2, C.	I, 2	M. Me.
61—Lawrence Street, above Stott's Mills.....	2, 3, 4, 6	I, 2	1	M. Me.
62—Corner School and Bowers Streets.....	2, 3, 7, 8	2, C	2	S.

Signal Boxes, Companies and Engineers Responding to Alarms.—Continued.

LOCATION OF SIGNAL BOXES.	HOSE CO'S.	STEAMER	H. & L.	ENGINEERS.
63—Corner of Hale and Howard Streets.....	1, 2, 6, 9	2	2	M. Me.
64—Corner Third and Myrtle Streets, Centralville.....	4, 5, 6	..	2	Me.
65—River Street, near Aiken Street Bridge.....	4, 5, 7	C	2	S.
67—Hildreth Street, opposite Lilley Avenue.....	4, 5, 7	C	2	S.
71—Middlesex Village; on Pole, opposite Hotel.....	2, 3, 7	2, C	2	M.
72—Middlesex Street; opposite Huntoon's Stable.....	2, 3, 4, 6, 7	2, C	1, 2	M. S.
73—Mammoth Street; near line, Pawtucketville.....	2, 3, 7, 8	2, C	2	S.
74—Varnum Avenue, Pawtucketville.....	2, 3, 7, 8	2, C	2	S.
81—Corner Pine and Wilder streets.....	1, 2, 6, 7	2, C	2	M.
82—Corner Chelmsford and Grand Streets.....	1, 2, 6, 7	2	2	M.
83—Corner Powell and Smith Streets.....	1, 2, 6, 7	2	2	M.
84—Corner of Westford and Gates Streets.....	1, 2, 6, 7	2	2	M.
92—Bridge Street, opposite Whitney's.....	4, 5, 6	3, C	2	Me.
131—Corner East Merrimack and Howe Streets.....	3, 4, 5, 6	2, C	1	Me.
68—Corner Sixth and Fremont Streets.....	3, 4, 5	..	2	Me.
121—Western Avenue, near R. R. Crossing.....	2, 3, 5	..		

INSTRUCTIONS TO KEY-HOLDERS.

Alarms are to be given from the box nearest the location of the fire.

Upon the discovery or positive information of a fire, you will unlock the box, pull down the slide or hook once only, and let go. If you hear no sound from the bell in the box, pull again. If you fail a second time, go to the next nearest box and do the same. Also be particular to remain at the box until the arrival of an engineer, who will release the key.

Each box contains a small bell, which if heard, before you pull the hook, indicates that the alarm has been previously given from another box. In such cases, do not pull the hook, until you are sure the alarm has been completed.

Never signal for a fire seen at a distance ; never touch the hook except to give an alarm of fire. Give an alarm for no cause other than an actual fire.

Second alarms for the same fire will be given only by one of the Engineers.

Never let the key go out of your possession unless called for by the Chief Engineer. If you change your residence or place of business where the key is kept, return the key to the same officer.

Keys to the boxes are in possession of responsible persons in the vicinity of the signal boxes ; also in the hands of the police.

Citizens are requested to inform themselves where the keys to the signal boxes are kept.

COMPANIES RESPONDING TO TELEPHONE ALARMS.

DISTRICT No. 1.—South side of Pawtucket Canal and west side of Boston & Lowell R. R. Nos. 1 and 2.

DISTRICT No. 2.—East side of Boston & Lowell R. R., to and including Hale, South Highland, Walnut, Whipple and Watson Streets, to Concord River. Nos. 1 and 6.

DISTRICT No. 3.—East side of Boston & Lowell R. R., Appleton, Middlesex and Jackson, to and including South Street. Nos. 2 and 6.

DISTRICT No. 4.—East side of Boston & Lowell R. R., from but not including Appleton Street, to but not including Hale, South Highland, Walnut, Whipple and Watson Streets to Concord River, and south side of Pawtucket Canal, east side of, but not including, South to Appleton Streets. Nos. 4 and 6.

DISTRICT No. 5.—Belvidere. Nos. 4 and 6.

DISTRICT No. 6.—Centralville. Nos. 3 and 5.

DISTRICT No. 7.—West of Concord River to Pawtucket Canal, East of Boston & Lowell R. R., to Merrimack River. Nos. 3 and 5.

DISTRICT No. 8.—West of Boston & Lowell R. R., and north of Pawtucket Canal, including Pawtucketville. Nos. 3 and 7.

Hook and Ladder No. 1 will respond in the district bounded as follows: West of Concord River, to and including Taylor, Wamesit, Elm, Highland, Thorndike and Fletcher Streets, to Merrimack River, to Concord River.

Hook and Ladder No. 2 will respond to all the rest.

Protective Company will respond to all alarms.

LOCATION OF KEYS TO FIRE ALARM BOXES.

- Box 3.—Harris Machine Shop ; Lowell Hosiery : A. Batchelder, corner Cross and Mt. Vernon Streets ; B. Greathead's store, corner Mt. Vernon and Broadway ; Otis Allen & Son's Mill.
- Box 4.—Engine room Wamesit Mills ; Cole & Nichols' Foundry ; Howes & Burnharm, lumber dealers ; M. C. Pratt's ; Parker & Cheney's ; Whitney & Tibbett's.
- Box 5.—Engine room, Brook's Mill ; C. P. Stanton's variety store, Liberty Square ; A. L. Wright's Machine Shop ; D. G. Harrington, 51 Fletcher Street ; D. Lovejoy & Son, corner Fletcher and Cushing Streets ; G. W. Fifield's Machine Shop ; Noyes' Stable.
- Box 6.—Office of Locks and Canals ; J. S. Adams, 42 Broadway ; D. Murphy, 49 Suffolk Street ; J. F. Murphy, corner Suffolk Street and Broadway.
- Box 7.—J. Plunkett's Drug Store ; J. Gates & Sons' ; Hadley's Stable ; Lowell Card Company.
- Box 8.—J. G. Merchant, 78 Westford Street ; D. Whithed, Jr., corner Branch and School Streets ; W. S. Gordon, corner Westford and School Streets.
- Box 9.—P. Quinn, grocery ; J. Marren, 31 Clark Street ; W. J. Hughes, grocer.
- Box 12.—Police Station.
- Box 13.—M. O. Carter's drug store ; stable on Prescott Street ; C. R. Kimball's drug store ; C. T. Chamberlin, Undertaker ; Whithed & Co.'s coal office ; Tea Store, corner Prescott Street.

Box 14.—C. Hall, grocer, Andover Street; A. Billingsley, variety store; W. A. Ingham, grocer, corner Fayette and Andover Streets; L. Richards, Andover Street; Warren Clifford, 102 High Street.

Box 15.—Bleachery Counting Room; Walsh's Mill; J. F. Thorning, 26 Bleachery Street.

Box 16.—L. C. Manchester, 299 Central Street; T. E. Stratton, 18 Ames Street; J. F. Norton, Cady Street; J. Tilton, 344 Central Street; Walker's Mill, Lawrence Street; E. Hamblett's drug store.

Box 17.—J. F. Manahan, 84 Branch Street; E. J. Noyes, 491 Middlesex Street; C. D. Starbird, 92 Branch Street; Pevey's Mill; S. H. Weaver, corner Middlesex and Walker Streets.

Box 18.—Mrs. J. P. Dudley, 7 Lincoln Street; C. S. Hadley, 37 Lincoln Street; Gates' Tannery; B. Edwards, 148 Hale Street; W. H. Bagshaw, 147 Hale Street.

Box 19.—M. Corbett, 65 Gorham Street; T. Gorman, grocer, 107 Gorham Street; H. Morris, 71 Union Street; A. Q. Phelan's drug store.

Box 21.—Carleton & Hovey's drug store; Wood Yard Office, Kirk Street.

Box 23.—Charles Callahan, River Street; Peter Fox, 90 River Street; J. F. Callahan, River Street; Kilbridge, River Street; F. J. Joyce, grocer.

Box 24.—S. W. Churchill's grocery; F. W. S. Daly, 18 Appleton Corporation; G. F. Wehr, 11 Appleton Corporation; T. G. Little, Appleton Street; Martin Moran, 27 South Street; Parker's stable, Middlesex Street.

Box 25.—Tremont Hotel.

Box 26.—J. A. Knowles, Jr., corner Fletcher and Pawtucket Streets; S. Bartlett, 273 Fletcher Street; J. Johnson, 61 Pawtucket Street.

Box 27.—A. C. Varnum, 9 Varnum Avenue ; C. E. Luscomb, Second Avenue ; O. R. Blood ; both grocery stores ; Major Emery's barn ; P. S. Coburn.

Box 28.—Harris' Harness Mill ; Lawrence Counting Room ; Tremont Counting Room ; Watchman on Lawrence Corporation ; J. G. Hill, 87 Cabot Street ; two French bakeries : W. K. Marshall, 94 Hall Street.

Box 29.—J. M. G. Parker's, 41 Tenth Street ; C. I. W. Maynard, 31 Tenth Street ; M. Green, 24 Tenth Street ; P. Webster, 29 Myrtle Street.

Box 31.—Dr. Fox, corner High and East Merrimack Streets ; A. G. Thompson's provision store.

Box 32.—Woods, Sherwood & Co., wire works ; F. G. Morse, 10 Webster Avenue ; D. H. Varnum, corner Bridge and Tenth Streets ; N. C. Mallory, 182 Bridge Street ; J. P. Roberts, engineer, Water Works.

Box 33.—C. Kemp, corner Broadway and Walker Street ; R. Goulding, 98 Walker Street ; L. Stevens, 111 Walker Street ; J. G. Peabody, corner Wilder Street and Broadway ; Charles Thompson, 124 Walker Street.

Box 34.—C. Webster, 137 Lincoln Street ; Arey & Maddocks' Tannery ; Coburn Shuttle Company, Ayer's City.

Box 35.—Stiles' grocery, Central Street ; D. Benson, variety store, 70 Lawrence Street ; L. W. Huntington, 48 Lawrence Street.

Box 36.—City Farm.

Box 37.—P. Lynch, 44 Whipple Street ; B. Gray, 45 Whipple Street ; Kerney & O'Donnell, provisions, 63 Whipple Street.

Box 38.—Fair Ground Building ; Parker's coal office ; Mollahan Brothers' coal office ; J. G. Marshall, 451 Gorham Street ; R. Stevens, 445 Gorham Street.

Box 39.—City Stables ; H. L. Haven's drug store ; Arthur Staples, 39 Franklin Street ; E. Murphy, 100 Fletcher Street.

- Box 41.—O. H. Moulton, 95 Nesmith Street; J. Howe, 48 Oak Street; C. J. Abbott, 18 Fairmount Street; W. Owen, 33 Oak Street.
- Box 42.—Davis & Sargent's Mill; H. C. Brothers' drug store; J. C. Bennett, Howard House; J. Baron, 344 Middlesex Street.
- Box 43.—G. E. Mitchell's plaster works; Horace J. Adams, 26 Highland Street; B. N. Webber, 14 Highland Street.
- Box 45.—Steamer House; C. E. Carter's drug store, 17 Branch Street; J. S. Bickford, 33 Branch Street.
- Box 46.—J. T. Donahue; B. W. Fullerton's drug store; Brock's drug store, Centralville; W. J. Powers, 66 Bridge Street.
- Box 47.—J. S. Ludlam; J. B. Francis; F. B. Shedd; H. H. Wilder; H. B. Coburn; Mrs. C. B. Richmond; all on Andover Street.
- Box 48.—W. T. Willis, 82 Dover Street; G. E. Evans, 87 Wilder Street; W. H. Smith, 58 Dover Street; D. C. Fields, 49 Grove Street; F. L. Morrill, corner Grove and Dover Streets; A. C. Russell, 90 Wilder Street; J. G. Buttrick, 100 Wilder Street.
- Box 51.—Suspender Mill; Ripley's Mill; J. Butler's Mill; Field's drug store; George Davis, 266 Gorham Street.
- Box 52.—E. B. Peirce, corner Austin and Merrimack Streets; H. B. Wheeler, 2 Austin Street; Albert Wheeler, 380 Merrimack Street.
- Box 53.—Crowell's drug store; F. H. Butler's store; Nichols & Fletcher's grocery.
- Box 54.—Gas Works; Flagman at Railroad; J. Clark's store house; Staple's Sewer Pipe office.
- Box 56.—Smith's Junk shop, Middle Street; Steamer 3's House, Middle Street.
- Box 57.—O. H. Perry, agent Middlesex Mills; two watchmen of Middlesex Mills; O. Saunders, Superintendent Middlesex Mills; C. T. Shannahan, flagman B. & M. R. R.

Box 61.—Greenwood Brothers, grocery ; Wamesit Power Company ; American Bolt Company ; Sterling Mills ; Scott Mills ; Cartridge Company ; Chase Mills ; Faulkner's Mills ; M. J. Keyes, 5 Agawam Street.

Box 62.—Horse Railroad station ; F. Taylor, 174 School Street ; Mrs. C. H. Barker, 166 School Street ; D. Goodhue, 163 School Street.

Box 63.—W. R. Batchelder's stable ; S. J. Gibby, 85 Hale Street ; S. Greenwood, 53 Hale Street ; J. S. Grush, 76 Hale Street ; C. E. Jameson, 129 Grand Street ; Horne's coal office ; Railroad Shop ; J. Brown, 102 Howard Street.

Box 64.—G. A. Gerry, 41 Third Street ; N. A. Randlett, 45 Third Street ; D. Sherwood, 25 Vernon Street.

Box 65.—R. Tweed ; Warburton Bros. ; J. Carroll ; H. Green, River Street.

Box 67.—S. B. Hall ; S. T. Smith ; T. Boynton, Hildreth Street.

Box 71.—Arlin Hotel ; J. Damon, Postmaster ; H. K. Ferrin, 821 Middlesex Street ; Richardson Brothers' ice house ; M. E. Graves, 74 Baldwin Street ; S. P. Hadley, 954 Middlesex Street.

Box 72.—P. H. Britton, St. Charles Hotel ; Huntoon's Stable ; W. A. Ingham, grocer ; C. F. Blanchard, 230 Middlesex Street ; Faulkner's Mills.

Box 73.—J. Besse ; J. M. Wilson ; T. Main ; B. Morrison, Mammoth Street.

Box 74.—J. Ansart ; T. Varnum ; W. H. Hull ; C. Varnum, Marshall Street.

Box 81.—I. K. Goodale, 53 Wilder Street ; C. Temple, 43 West Pine Street ; J. S. Eldridge, 4 Wilder Street ; C. W. Richardson, Stevens Street ; J. B. Stillings, 166 Liberty Street ; H. L. Tibbetts, 279 Westford Street.

Box 82.—Dow's, Grand Street ; I. O. Ramsdell's blacksmith shop ; W. A. Favor, 65 Chelmsford Street.

Box 83.—J. Ash, 13 Powell Street; Stoughton's grocery; W. Clifford, 50 Powell Street; J. L. Robinson, 111 Powell Street; Shaw Hosiery.

Box 84.—F. Lovejoy, 84 Westford Street; A. B. Hall, 91 Westford Street; L. W. Godin, 4 Gates Street; C. S. Davis, 94 Westford Street.

Box 92.—A. Henderson, Nineteenth Street; George Flint, 375 Bridge Street; W. J. Pead, 1 Boynton Street; S. F. Pead, 316 Bridge Street; George T. Whitney, 309 Bridge Street.

Box 131.—Fuller's grocery; Miles grocery; Belvidere Mills; Webster's drug store; Horse Railroad Stables.

In addition, the Board of Engineers, every Police Officer, and a large number of Citizens are furnished with keys to be carried in their pockets.

HYDRANTS IN CHARGE OF STEAMER NO. 1.

Gorham Street, opposite School House.....	Flush
Gorham “ corner Livingston Street.....	Flush
Gorham “ opposite No. 395.....	Flush
Gorham “ Fair Grounds.....	Flush
Gorham “ opposite Butler’s Mill.....	Flush
Gorham “ opposite Lunberg Street.....	Post
Gorham “ opposite Edson’s Cemetery.....	Post
Gorham “ at City Line.....	Post
Frye “	Post
Pihl “ corner Fay.....	Post
Agawam “ opposite No. 5.....	Flush
Agawam “ opposite No. 31.....	Flush
Agawam “ corner Griffin Street.....	Flush
Agawam “ opposite School House.....	Flush
Carter “ corner Gorham Street.....	Flush
Carter “ opposite Livingston Street.....	Flush
Bleachery “ opposite Carter Street.....	Flush
Bleachery “ opposite No. 11.....	Flush
Bleachery “ opposite Barn.....	Flush
Bleachery “ opposite Soda House.....	Flush
Bleachery “ opposite Shed.....	Flush
Bleachery “ rear of Packing Room.....	Flush
Bleachery “ opposite No. 37.....	Flush
Bleachery “ corner Moore Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1.—Continued.

Moore Street, opposite No. 62.....	Flush
Moore “ opposite No. 92.....	Flush
Moore “ opposite Meadowcroft Street.....	Flush
Moore “ opposite S. Whipple.....	Flush
Moore “ opposite Andrews Street.....	Flush
Faulkner “ opposite Office.....	Flush
Lawrence “ opposite Faulkner Street.....	Flush
Lawrence “ opposite Dye Works.....	Post
Lawrence “ opposite Moore Street.....	Flush
Lawrence “ opposite Cemetery.....	Flush
S. Whipple “ corner Barrington Street.....	Flush
Andrews “ opposite No. 92.....	Flush
Andrews “ opposite No. 50.....	Post
Mead'croft “ opposite the Mill.....	Post
Cosgrove “ near Gorham Street.....	Post
Bolt “ opposite No. 27.....	Post
Jennings “ near Chelmsford Street.....	Post
Lincoln “ corner Gorham Street.....	Flush
Lincoln “ opposite No. 279.....	Flush
Lincoln “ opposite No. 247.....	Flush
Lincoln “ corner Quebec Street.....	Flush
Lincoln “ corner Main Street.....	Flush
Lincoln “ opposite No. 157.....	Flush
Lincoln “ corner Tanner Street.....	Flush
Lincoln “ opposite No. 62.....	Flush
Lincoln “ near the Square.....	Flush
Lincoln Square.....	Post
Manchester Street, opposite No. 23.....	Post
Court “ near Manchester Street.....	Post
Blossom “ opposite No. 22.....	Flush
London “ opposite No. 56.....	Flush
London “ opposite No. 56.....	Flush
London “ opposite No. 161.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1—Continued.

Main Street, corner Plain Street.....	Post
Marshall Road, corner Plain Street.....	Post
Marshall “ opposite No. 38.....	Post
Chelmsford Street, opposite No. 254.....	Post
Chelmsford “ corner Parker Street.....	Post
Chelmsford “ corner Plain Street.....	Post
Chelmsford “ opposite No. 427.....	Post
Chelmsford “ opposite No. 545.....	Post
Chelmsford “ opposite City Farm.....	Post
Chelmsford “ corner Daly Street.....	Flush
Chelmsford “ corner Grand Street.....	Post
Chelmsford “ corner Howard Street.....	Flush
City Poor Farm, near Barn.....	Post
City Poor Farm, near Barn.....	Post
City Poor Farm, Insane Yard	Post
Washington Street, opposite No. 7.....	Post
Washington “ opposite No. 209.....	Post
Leverett “ opposite No. 32.....	Post
Cambridge “ opposite No. 45.....	Flush
Hale “ corner Cambridge Street.....	Flush
Hale “ opposite Grand Street.....	Flush
Hale “ corner Howard Street.....	Flush
Grand “ opposite Daly Street.....	Flush
Tanner “ opposite Boiler Street.....	Post
Howard “ near Freight Office.....	Post
Howard “ opposite No. 133.....	Flush
Howard “ opposite Railroad Street.....	Flush
Railroad “ opposite No. 14.....	Flush
Railroad “ opposite No. 52.....	Flush
Livingston “ opposite No. 33.....	Flush
Thorndike “ corner Madison Street.....	Flush
Thorndike “ opposite Hale Street.....	Flush
Thorndike “ opposite Highland Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1—Continued.

Thorndike Street, opposite Appleton Street.....	Flush
Robinson “ opposite No. 15.....	Flush
Congress “ opposite No. 27.....	Flush
Congress “ corner Thorndike Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2.

Thorndike Street,	opposite Livingston's Mill.....	Flush
Howard	" opposite No. 19.....	Flush
Howard	" corner Westford Street.....	Flush
Grand	" opposite No. 54.....	Flush
Grand	" opposite Marshall Street.....	Flush
Grand	" corner Middlesex Street.....	Post
Canton	" opposite No. 6.....	Flush
Marshall	" opposite No. 22.....	Flush
Marshall	" corner Gates Street.....	Flush
Gates	" opposite Gates' Residence.....	Flush
Royal	" opposite No. 23.....	Post
East Pine	" corner Carleton Street.....	Flush
East Pine	" opposite No. 28.....	Flush
Smith	" opposite No. 20.....	Flush
Smith	" corner Westford Street.....	Flush
Smith	" opposite Emerson's Residence.....	Flush
Smith	" Shaw Stocking Mill.....	Post
Smith	" opposite No. 112.....	Flush
Liberty	" corner Smith Street.....	Flush
Liberty	" opposite No. 33.....	Flush
Liberty	" corner Powell Street.....	Flush
Liberty	" opposite No. 124.....	Flush
Liberty	" corner Hastings Street.....	Flush
Barclay	" opposite No. 9.....	Post

HYDRANTS IN CHARGE OF STEAMER NO 2—Continued.

Anderson Street	.....	Post
Lawrence	"	Post
Shaw	" corner Chelmsford Street.....	Post
Shaw	" opposite Shaw Stocking Mill.....	Post
A	"	Post
B	"	Post
C	" corner Powell Street.....	Post
Powell	" opposite No. 25.....	Post
Lane	" corner Horne Street.....	Flush
Lane	" opposite No. 15	Flush
School	" opposite Burnham & Moran's.....	Flush
School	" corner Grove Street.....	Flush
School	" corner Westford Street	Flush
School	" opposite No. 11.....	Flush
New School	" near Mason Street.....	Post
Hastings	" opposite No. 69.....	Post
So. Loring	" opposite No. 27.....	Post
Coral	" corner Westford Street.....	Flush
Coral	" corner Grove Street.....	Flush
Loring	" corner Branch Street.....	Flush
Loring	" corner Leroy Street.....	Flush
Ware	" corner Ralph Street.....	Post
Grove	" corner Loring Street.....	Flush
Walker	" opposite No. 15.....	Flush
Walker	" opposite No. 25.....	Flush
Walker	" near Columbus Avenue.....	Flush
Walker	" opposite Pevey's Mill.....	Flush
Westford	" opposite No. 47	Flush
Westford	" opposite No. 73.....	Flush
Westford	" corner Gates Street.....	Flush
Westford	" opposite No. 119.....	Post
Westford	" opposite No. 164.....	Post
Westford	" corner Loring Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Westford	Street, corner Walker Street.....	Flush
Westford	“ corner Wilder Street.....	Flush
Baldwin	“	Post
So. Loring	“	Post
West Pine	“	Post
La Grange	“	Post
Westford	“ opposite No. 333.....	Post
Westford	“ opposite Belmont Street.....	Post
Westford	“ opposite No. 483.....	Post
Belmont	“ near Westford Street.....	Post
Robbins	“ near Westford Street.....	Post
W. Pine	“ corner Robbins Street.....	Flush
W. Pine	“ corner Liberty Street.....	Flush
W. Pine	“ opposite No. 21.....	Flush
W. Adams	“ opposite No. 15.....	Post
Columbus Avenue, near Walker Street.....		Post
Wilder Street, opposite Marginal Street.....		Flush
Wilder	“ near Middlesex Street.....	Flush
Wilder	“ opposite Princeton.....	Flush
Wilder	“ near Westford.....	Post
Dover	“ opposite No. 90.....	Flush
Dover	“ opposite No. 63.....	Flush
Dover	“ opposite No. 26.....	Flush
Branch	“ opposite the Church.....	Post
Branch	“ corner Nichols Street.....	Flush
Branch	“ corner Smith Street.....	Flush
Branch	“ corner Queen Street.....	Flush
Branch	“ corner School Street.....	Flush
Branch	“ opposite No. 63.....	Flush
Branch	“ opposite No. 97.....	Flush
Branch	“ opposite No. 107.....	Flush
Branch	“ corner Dover Street.....	Flush
Marginal	“ corner Stevens Street.....	Post

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Stevens Street, corner Middlesex Street.....	Flush
Stevens “ 200 feet South of Middlesex Street.....	Post
Stevens “ 500 feet south of Middlesex Street.....	Flush
Stevens “ corner Princeton Street.....	Flush
Stevens “ 200 feet south of Westford Street	Flush
Stevens “ corner West Pine Street.....	Flush
Stevens “ opposite No. 209.....	Flush
Stevens “ opposite No. 261.....	Post
Queen “ opposite No. 15.....	Flush
Edson “ near Princeton Street.....	Post
Middlesex “ near Railroad Crossing.....	Flush
Middlesex “ corner Howard Street.....	Flush
Middlesex “ opposite Davis & Sargent’s Mill.....	Flush
Middlesex “ near corner McIntire Street.....	Post
Middlesex “ corner Carleton Street.....	Post
Middlesex “ near corner Branch Street.....	Flush
Middlesex “ opposite Queen Street.	Flush
Middlesex “ corner School Street.....	Flush
Middlesex “ opposite No. 427.....	Flush
Middlesex “ near driveway of Mrs. S. Spalding.....	Flush
Middlesex “ opposite vacant lot.....	Flush
Middlesex “ corner Walker.....	Flush
Middlesex “ corner Wilder.....	Flush
Middlesex “ opposite W. A. Ingham’s.....	Flush
Middlesex “ near Stevens Street.....	Flush
Middlesex “ opposite No. 657.....	Flush
Middlesex “ near driveway W. E. Livingston’s.....	Post
Middlesex “ near Richardson’s Ice House.....	Post
Middlesex “ opposite No. 816, Middlesex Village.....	Post
Middlesex “ Middlesex Village.....	Post
Middlesex “ opposite Middlesex House.....	Post
Middlesex “ opposite No. 954.....	Post

HYDRANTS IN CHARGE OF STEAMER NO. 3.

Middle Street,	corner Shattuck.....	Flush
Middle	“ opposite No. 93.....	Flush
Middle	“ opposite No. 61.....	Flush
Middle	“ opposite No. 27.....	Flush
Middle	“ near Central Street.....	Flush
Market	“ opposite No. 35.....	Flush
Market	“ opposite No. 69.....	Flush
Market	“ opposite J. C. Ayer's.....	Flush
Market	“ near Dutton Street.....	Flush
Market	“ corner Dummer Street.....	Flush
Market	“ opposite Jefferson Street.....	Flush
Ford	“ corner James Street.....	Flush
Ford	“ opposite No. 70.....	Flush
Ford	“ near corner Cabot Street.....	Flush
Dutton	“ opposite Mechanics' Hall.....	Flush
Dutton	“ opposite No. 25.....	Flush
Dutton	“ opposite No. 31.....	Flush
Dutton	“ opposite No. 62.....	Flush
Dutton	“ opposite Machine Shop.....	Flush
Dutton	“ opposite Kitson's.....	Flush
Dutton	“ opposite No. 11.....	Flush
Dutton	“ opposite Merrimack Counting Room.....	Flush
Dummer	“ corner Little Street.....	Flush
Little	“ near corner Lewis Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 3—Continued.

Lewis	Street	near corner Jefferson Street.....	Flush
Lewis	"	near corner Market Street.....	Flush
Moody	"	corner Pawtucket Street.....	Flush
Moody	"	opposite No. 220.....	Flush
Moody	"	opposite No. 150.....	Flush
Moody	"	opposite No. 151.....	Flush
Moody	"	opposite No. 200.....	Flush
Moody	"	near corner Race Street.....	Flush
Dodge	"	corner Race Street.....	Flush
Central	"	corner Market Street.....	Flush
Central	"	corner Middle Street....	Flush
Canal	"	near No. 36.....	Flush
Canal	"	opposite Massachusetts Counting Room.....	Flush
Amory	"	opposite No. 25.....	Flush
Amory	"	opposite No. 55.....	Elush
Carpet Lane,		opposite No. 4.....	Flush
French	Street,	opposite No. 47.....	Flush
French	"	corner Kirk Street.....	Flush
French	"	.....	Post
French	"	.....	Post
Bridge	"	.....	Post
Bridge	"	.....	Post
Bridge	"	.....	Post
Primer	"	opposite No. 103.....	Flush
Paige	"	corner John Street.....	Flush
Paige	"	opposite No. 76.....	Flush
Aiken	"	opposite No. 15.....	Flush
Kirk	"	corner Merrimack Street.....	Flush
Kirk	"	corner Lee Street.....	Flush
Lee	"	opposite No. 8.....	Flush
John	"	opposite No. 6.....	Flush
Colburn	"	opposite No. 133.....	Flush
Anne	"	opposite Grist Mill.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Anne Street	opposite No. 25.....	Flush
Anne “	opposite No. 13.....	Flush
Worthen “	opposite Office.....	Flush
Worthen “	opposite No. 48.....	Flush
Worthen “	opposite No. 39.....	Flush
Worthen “	corner Moody Street.....	Flush
Worthen “	.....	Flush
Worthen “	corner Market Street.....	Flush
Tilden “	corner Moody Street.....	Flush
Tilden “	opposite No. 51.....	Flush
Tremont “	opposite No. 19.....	Flush
Tremont “	opposite No. 23.....	Flush
Tremont “	opposite No. 62.....	Flush
Suffolk “	corner Moody Street.....	Flush
Suffolk “	corner Hall Street.....	Flush
Merrimack Street,	corner Anne Street....	Flush
Merrimack “	corner Moody Street.....	Flush
Merrimack “	corner Worthen Street.....	Flush
Merrimack “	opposite Maiden Lane	Flush
Merrimack “	opposite Green School.....	Flush
Merrimack “	opposite No. 24.....	Flush
Merrimack “	corner Hanover Street.....	Flush
Merrimack “	near Suffolk Street.....	Flush
Merrimack “	opposite No. 348.....	Flush
Merrimack “	corner Cabot Street.....	Flush
Merrimack “	opposite No. 386.....	Flush
Merrimack “	opposite No. 383.....	Flush
Merrimack “	opposite No. 397.....	Flush
Merrimack “	corner Pawtucket Street.....	Flush
Merrimack “	opposite Post Office.....	Flush
Merrimack “	corner Bridge Street.....	Flush
Merrimack “	opposite John Street.....	Flush
Merrimack “	opposite No. 81.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 3.—Continued.

Merrimack Street	opposite No. 96.....	Flush
Hall	“ corner Aiken Street.....	Flush
Hall	“ near Suffolk Gate.....	Flush
Cabot	“ corner Hall Street.....	Flush
Cabot	“ opposite No. 14.....	Flush
Cabot	“ near Moody Street.....	Post
Cheever	“ corner Coolidge Street.....	Flush
Tucker	“	Post
Pawtucket	“ near Harris Mill.....	Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 4.

East Merrimack	Street, near Concord River Bridge.....	Flush
East Merrimack	“ No. 260.....	Post
East Merrimack	“ opposite Stackpole Street.....	Post
East Merrimack	“ opposite Park Street.....	Flush
East Merrimack	“ opposite No. 148.....	Flush
East Merrimack	“ corner Alder Street.....	Flush
Davidson	“ opposite No. 29.....	Flush
Davidson	“ L. H. R. R. Stable.....	Flush
Howe	“ near Stott's Mills.....	Flush
Howe	“ corner East Merrimack Street.....	Flush
Stackpole	“ Twine Mills.....	Flush
Stackpole	“ opposite Livermore Street.....	Flush
Stackpole	“ opposite No. 116.....	Flush
Stackpole	“ opposite No. 146.....	Flush
Stackpole	“ opposite Alder Street.....	Flush
Stackpole	“ opposite No. 172.....	Flush
High Street Square, corner E. Merrimack Street.....		Flush
Bartlett	Street, opposite No. 22.....	Flush
Bartlett	“ opposite No. 52.....	Flush
Ash	“ near corner E. Merrimack Street.....	Flush
Chestnut	“ opposite No. 37.....	Flush
Chestnut	“ opposite No. 65.....	Flush
Nesmith	“ near corner Chestnut Street.....	Flush
Bartlett	“ corner Alder Street.....	Post
High	“ corner Rogers Street	Post

HYDRANTS IN CHARGE OF HOSE CO. NO. 2—Continued.

Nesmith	Street	opposite No. 41.....	Flush
Nesmith	"	opposite No. 61... ..	Flush
Nesmith	"	corner Wyman Street.....	Flush
Nesmith	"	opposite Mansur Street.....	Flush
Nesmith	"	near Burke's Driveway.....	Flush
Nesmith	"	near Judge Crosby's.....	Flush
Nesmith	"	near O. H. Perry's.....	Flush
Park	"	opposite T. Nesmith.....	Post
Andover	"	opposite No. 280.....	Flush
Andover	"	opposite No. 252.....	Flush
Andover	"	opposite 228.....	Flush
Andover	"	near Box 47.....	Flush
Andover	"	near J. S. Ludlam's.....	Flush
Andover	"	opposite driveway of No. 140.....	Flush
Andover	"	opposite Park Street.....	Flush
Andover	"	corner Harrison Street.....	Flush
Fairmount	"	near corner Nesmith Street.....	Post
Fairmount	"	opposite Sheppard's Garden.....	Post
Fairmount	"	near Butter's driveway.....	Post
Fairmount	"	opposite No. 181.....	Post
Fairmount	"	opposite Belmont Avenue.....	Post
Fairmount	"	near No. 127.....	Post
Fairmount	"	opposite Reservoir.....	Post
Fairmount	"	opposite No. 181.....	Post
Fairmount	"	opposite No. 46.....	Post
Fairmount	"	opposite No. 18.....	Post
Fairview	"	opposite D. C. Brown's.....	Post
Talbot	"	corner Belmont Avenue.....	Post
Mansur	"	opposite Levi Sprague's.....	Post
Mansur	"	opposite T. G. Tweed's.....	Post
Warren	"	near Office Middlesex Mills.....	Flush
Warren	"	near Gate No. 3.....	Flush
Hurd	"	corner Central Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 4.—Continued.

Hurd	Street, near Methodist Church.....	Flush
Prescott	“ front Cotton House.....	Flush
William	“ corner Central Street.....	Flush
William	“ opposite No. 22.....	Flush
George	“ opposite William Street.....	Flush
Green	“ near No. 23.....	Flush
Church	“ corner Central Street.....	Flush
Church	“ opposite No. 19.....	Flush
Church	“ opposite Church.....	Flush
Church	“ opposite No. 67.....	Flush
Water	“ opposite No. 12.....	Flush
Water	“ corner Pond Street.....	Flush
Water	“ opposite No. 57.....	Flush
Concord	“ corner Roger's Street.....	Post
Pleasant	“ corner Pond Street	Flush
High	“ opposite Oak Street.....	Flush
High	“ near corner Andover Street.....	Flush
High	“ opposite No. 84.....	Flush
High	“ opposite No. 54.....	Flush
Clay	“ corner Oak Street.....	Flush
Clay	“ near corner Andover Street.....	Flush
Harrison	“ opposite No. 19.....	Flush
Harrison	“ corner Porter Street.....	Post
Harrison	“ corner Rogers' Street.....	Post
Oak	“ opposite No. 39	Flush
Fayette	“ opposite No. 31.....	Flush
Fayette	“ opposite No. 64.....	Flush
Fayette	“ opposite No. 88.....	Flush
Fayette	“ opposite No. 112.....	Flush
East Merrimack	Street, near Shedd's Barn.....	Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 5.

Front Street,	opposite No. 47.....	Post
River	“ opposite Front Street.....	Flush
River	“ opposite No. 60.....	Flush
River	“ opposite No. 45.....	Flush
River	“ opposite No. 122.....	Flush
River	“ City Line.....	Post
River	“ opposite No. 139.....	Flush
River	“ opposite No. 185.....	Flush
River	“ opposite No. 257.....	Flush
River	“ opposite No. 259.....	Post
River	“ opposite No. 325.....	Post
River	“ opposite No. 451.....	Post
Boynton	“	Post
Lilly Avenue,	near River Street.....	Post
Lilly	“ near Cumberland Street.....	Post
Bye Street,	opposite No. 7.....	Post
Hildreth Street,	corner Boynton Street.....	Post
Hildreth	“ opposite No. 141.....	Flush
Hildreth	“ near New Street.....	Flush
Hildreth	“ corner Jewett Street.....	Flush
Hildreth	“ opposite No. 23.....	Flush
Hampshire	“ opposite No. 57.....	Flush
Hampshire	“ opposite No. 39.....	Flush
Hampshire	“ Hampshire Place.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 5.—Continued.

W. Sixth Street, opposite No. 14.....	Flush
W. Sixth “ Pumping Station.....	Flush
W. Sixth “ corner Jewett Street.....	Flush
W. Sixth “ corner Coburn Street.....	Flush
West “ corner W. Sixth Street.....	Flush
Fulton “ opposite No. 83.....	Post
Fulton “ opposite No. 48.....	Post
Fulton “ opposite No. 12.....	Post
Coburn “ opposite No. 22.....	Flush
Coburn “ opposite No. 119.....	Flush
Jewett “ opposite No. 98.....	Post
Jewett “ opposite No. 71.....	Post
W. Third “ near Blacksmith’s.....	Post
W. Fourth “ near Green House.....	Flush
W. Fourth “ corner Albion Street.....	Flush
Albion “ corner W. Fifth Street.....	Flush
Shedd “ opposite No. 7.....	Flush
Harrison Avenue, opposite No. 5.....	Post
Boynton Street, near Bridge Street.....	Post
Bridge “ opposite No. 69.....	Flush
Bridge “ opposite No. 83.....	Flush
Bridge “ corner Fourth Street.....	Flush
Bridge “ corner Fifth Street.....	Flush
Bridge “ Wire Works.....	Flush
Bridge “ opposite No. 165.....	Flush
Bridge “ corner Tenth Street.....	Flush
Bridge “ corner Twelfth Street.....	Flush
Bridge “ corner Thirteenth Street.....	Flush
Bridge “ corner Nineteenth Street.....	Post
Bridge “ opposite No. 375.....	Post
May “	Post
First “ opposite No. 20.....	Flush
First “ opposite No. 45.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 5—Continued.

First Street,	opposite No. 74.....	Flush
First	“ opposite No. 98.....	Flush
Simpson	“ opposite No. 23.....	Flush
Durant	“ opposite No. 55.....	Flush
Durant	“ opposite No. 97.....	Flush
Vernon	“ corner Richardson Street.....	Flush
Vernon	“ corner Bennett Street.....	Flush
Sixth	“ opposite No. 105.....	Flush
Sixth	“ corner Beach Street.....	Flush
Sixth	“ corner Read Street.....	Flush
Sixth	“ opposite No. 41.....	Flush
Fremont	“ opposite No. 63.....	Post
Fremont	“ opposite No. 23.....	Post
Third	“ opposite No. 86.....	Post
Third	“ corner Beach Street.....	Flush
Third	“ opposite No. 48.....	Flush
Third	“ corner Read Street.....	Flush
Third	“ opposite No. 14.....	Flush
Beach	“ opposite No. 29.....	Flush
Beach	“ opposite No. 55.....	Flush
Myrtle	“ opposite No. 48.....	Flush
Myrtle	“ corner Sixth Street.....	Flush
Myrtle	“ corner Fourth Street.....	Flush
Fourth	“ opposite No. 29.....	Flush
Fourth	“ opposite No. 45.....	Flush
Fifth	“ opposite No. 22.....	Flush
Fifth	“ opposite No. 38.....	Flush
Tenth	“ opposite Myrtle Street.....	Flush
Tenth	“ opposite No. 48.....	Flush
Tenth	“ opposite No. 60.....	Post
Tenth	“ opposite No. 70.....	Post
Tenth	“ opposite Christian Street.....	Post
Tenth	“ corner Reservoir Street.....	Post

HYDRANTS IN CHARGE OF HOSE CO. NO. 5—Continued.

Tenth Street,	corner of Methuen Street.....	Flush
Seventh “	opposite Methuen Street.....	Flush
Nineteenth “	corner of Bridge Street.....	Post
Bennett “	corner Beacon Street.....	Flush
Second “	opposite No. 24.....	Flush
Beacon “	opposite No. 81.....	Post
Beacon “	corner Third Street.....	Post
Beacon “	corner Sixth Street.....	Post
Beacon “	opposite Reservoir.....	Post
Beacon “	opposite Tenth Street.....	Post
Beacon “	opposite No. 351.....	Post
Beacon “	opposite No. 400.....	Post
Beacon “	opposite No. 462.....	Post
Ludlam “	.....	Post
Eleventh “	corner Beacon Street.....	Flush
Eleventh “	opposite No. 17.....	Flush
Methuen “	opposite June Street.....	Post
Methuen “	corner Eleventh Street.....	Flush
Methuen “	opposite No. 96.....	Flush
Thirteenth “	corner June Street.....	Flush
Ludlam “	between Hildreth and Bridge Streets.....	Post
Wachusett “	opposite No. 9.....	Post
Methuen “	opposite Humphry.....	Post
Humphry “	.....	Post
Sutherland “	.....	Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 6.

Middlesex	Street, No. 24.....	Flush
Middlesex	“ corner Elliott Street.....	Flush
Middlesex	“ corner South Street.....	Flush
Middlesex	“ corner Gorham Street.....	Flush
Middlesex	“ corner Pearl Street.....	Flush
Middlesex	“ corner Garnet Street.....	Post
Middlesex	“ corner Gorham Street	Post
Middlesex	“ opposite No. 76.....	Post
Middlesex	“ opposite Thorndike Street.....	Flush
Central	“ corner Charles Street.....	Flush
Central	“ opposite Tyler Street.....	Flush
Central	“ corner Union Street.....	Flush
Central	“ opposite North Street.....	Flush
Central	“ Towers' Corner.....	Flush
Central	“ corner Centre Street.....	Flush
Central	“ corner Cady Street.....	Flush
Central	“ corner Elm Street.....	Flush
Central	“ corner No. 325.....	Flush
Central	“ near corner Gorham Street.....	Flush
Central	“ opposite Crosby Street.....	Flush
Central	“ corner Walnut Street.....	Flush
Central	“ corner Chapel Street.....	Flush
Central	“ front School House.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6—Continued.

Tyler	Street,	opposite No. 18.....	Flush
Tyler	"	opposite No. 35.....	Flush
Tyler	"	corner Lawrence Street	Flush
Lawrence	"	opposite Charles Street.....	Flush
Lawrence	"	opposite Stott's Mills.....	Flush
Lawrence	"	opposite Newhall Street.....	Flush
Lawrence	"	front No. 200.....	Flush
Sterling Mills, in Yard.....			Post
Lawrence	Street,	opposite No. 136.....	Flush
Lawrence	"	opposite Laundry.....	Flush
Mill	"	opposite No. 11.....	Post
Chambers	"	opposite No. 10.....	Post
Whipple	"	corner Mead Street	Flush
Mead	"	corner Floyd Street.....	Flush
Kinsman	"	opposite Floyd Street.....	Post
Pine Hill	"	opposite Chambers Street.....	Post
Kidder	"	front No. 20.....	Flush
Prospect	"	Upper End.....	Flush
Chambers	"	corner Newhall Street.....	Post
Ames	"	opposite No. 11.....	Flush
Newhall	"	opposite Crosby Street.....	Flush
Watson	"	corner Whipple Street.....	Flush
Crosby	"	front No. 19.....	Flush
Crosby	"	opposite New Street.....	Flush
Crosby	"	opposite No. 86.....	Flush
Chapel	"	corner Union Street.....	Flush
Chapel	"	opposite No. 61.....	Flush
Chapel	"	opposite No. 41.....	Flush
Chapel	"	opposite School House.....	Flush
Chapel	"	front No. 119.....	Flush
Chapel	"	front No. 79.....	Flush
Jackson	"	corner Central Street.....	Flush
Jackson	"	opposite No. 38.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6—Continued.

Jackson	Street,	opposite No. 19.....	Flush
Jackson	"	opposite Hamilton Office.....	Flush
Jackson	"	opposite Appleton Mill.....	Flush
Jackson	"	corner Middlesex Street.....	Flush
Jackson	"	first Coal Shed.....	Flush
Appleton	"	opposite No. 129	Flush
Appleton	"	corner Pearl Street.	Flush
Appleton	"	corner Eliot Street.....	Flush
Union	"	corner Lindon Street.....	Flush
W. Union	"	No. 56.....	Flush
Highland	"	opposite No. 48.....	Flush
Cady	"	opposite No. 14.....	Flush
Linden	"	near Church.....	Flush
Linden	"	near Court House.....	Flush
Linden	"	corner Auburn Street.....	Flush
North	"	opposite No. 24.....	Flush
North	"	corner Lawrence Street.....	Flush
Elm	"	opposite Court House.....	Flush
Elm	"	opposite No. 37....	Flush
Elm	"	opposite No. 15.....	Flush
Cedar	"	opposite No. 30.....	Flush
Cedar	"	corner Keene Street.....	Post
Kinsman	"	corner Crosby Street.....	Post
Charles	"	opposite No. 22	Post
Charles	"	opposite No. 76.....	Post
Charles	"	opposite No. 50.....	Post
Lyon	"	opposite No. 20.....	Post
Appleton	"	front St. Peter's Church.....	Flush
Winter	"	corner Davis Street.....	Flush
South	"	corner Appleton Street.....	Flush
South	"	corner Union Street.....	Flush
South	"	opposite No. 112.....	Flush
Gorham	"	corner Locke Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6—Continued.

Gorham	Street,	opposite Tower's Corner.....	Flush
Gorham	"	corner South Street.....	Flush
Gorham	"	opposite No. 181.....	Flush
Gorham	"	opposite Winter Street.....	Flush
Gorham	"	opposite No. 219.....	Flush
Gorham	"	opposite Pipe Yard.....	Flush
Walnut	"	opposite No. 45.....	Flush
Walnut	"	opposite No. 17.....	Flush
Keene	"	opposite No. 26.....	Flush
Madison	"	corner Burns Street.....	Flush
S. Highland	"	near corner Burns Street.....	Flush
Summer	"	opposite No. 35.....	Flush
Summer	"	corner Gorham Street.....	Flush
Summer	"	corner South Street.....	Flush
Summer	"	opposite No. 79.....	Flush
Summer	"	opposite Favor Street.....	Flush
Summer	"	corner Thorndike Street.....	Flush
Wamesit	"	opposite No. 18.....	Flush
Wamesit	"	corner Lawrence Street.....	Flush
Abbott	"	No. 24.....	Flush
Taylor	"	corner Merrill Street.....	Flush

HYDRANTS IN CHARGE OF HOSE COMPANY

NO. 7.

Pawtucket	Street, corner Mt. Vernon Street.....	Flush
Pawtucket	“ corner Arlington Street.....	Flush
Pawtucket	“ corner Wannalancit Street.....	Flush
Pawtucket	“ opposite No. 160.....	Flush
Pawtucket	“ opposite Walker.....	Flush
Pawtucket	“ opposite Ice House.....	Flush
Walker	“ opposite No. 128.....	Flush
Walker	“ opposite No. 118.....	Flush
Walker	“ opposite No. 106.....	Flush
Walker	“ corner Broadway.....	Flush
Walker	“ corner Waugh Street.....	Flush
Wilder	“ opposite Waugh Street.....	Flush
Wilder	“ corner Broadway.....	Post
Wilder	“ opposite No. 180.....	Post
Phillips	“ corner Mason Street.....	Post
Varnum	Avenue, opposite Fay's House... ..	Post
Varnum	“ opposite R. Park's.....	Post
Varnum	“ opposite Gate House.....	Post
Varnum	“ opposite Dam.....	Post
Varnum	“ opposite G. W. Coburn's.....	Post
Varnum	“ opposite No. 18.....	Post
Riverside	“ near Marshall's Residence.....	Post
Riverside	“ corner Mt. Hope.....	Post
Riverside	“ front J. Gage's Residence.....	Post

HYDRANTS IN CHARGE OF HOSE NO. NO. 7—Continued.

Bowers Avenue, near Rochdale Avenue.....	Post
Varnum “	Post
Varuum “	Post
Aiken “	Post
School Street	Post
Riverside Street, front J. Parnell's Residence.....	Post
Riverside “ front Squash House... ..	Post
Riverside “ front Emery's Barn.....	Post
Mt. Hope “ near Riverside.....	Post
Broadway “ opposite 349.....	Flush
Broadway “ opposite No. 252.....	Flush
Broadway “ corner School Street.....	Flush
Broadway “ opposite No. 285.....	Flush
Broadway “ opposite No. 343.....	Flush
Broadway “ corner Willie Street.....	Flush
Wannalancit “ opposite No. 118.....	Flush
Wannalancit “ opposite Castle.....	Flush
Suffolk “ opposite No. 22.....	Flush
Suffolk “ opposite Lagrange Street.....	Flush
Suffolk “ corner Fenwick Street.....	Flush
Cabot “ corner Market Street.....	Flush
Cross “ corner Marion Street.....	Flush
Cross “ corner Suffolk Street.....	Flush
Cross “ opposite No. 115.....	Flush
Cross “ opposite Mt. Vernon Street.....	Flush
Cross “ opposite No. 148.....	Flush
Fenwick “ near Church.....	Flush
Fenwick “ opposite No. 65.....	Flush
Salem “ opposite No. 224.....	Flush
Salem “ opposite Willie Avenue.....	Flush
Salem “ opposite No. 69.....	Flush
Salem “ opposite Whitney Street.....	Flush
Salem “ opposite Dane Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7—Continued.

Clark	Street, corner Willie Avenue.....	Flush
Arlington	“ opposite No. 11.....	Flush
Powers	“ opposite No. 33.....	Post
Pawtucket	“ near Fletcher Street.....	Flush
Pawtucket	“ corner School Street.....	Flush
Pawtucket	“ corner Mt. Washington Street.....	Flush
Fletcher	“ opposite Lagrange Street.....	Flush
Fletcher	“ corner Lagrange Street.....	Flush
Fletcher	“ corner Dutton Street.....	Flush
Fletcher	“ corner Clark Street.....	Flush
Fletcher	“ corner Dane Street.....	Flush
Fletcher	“ opposite Butterfield Street.....	Flush
Fletcher	“ opposite Varney Street.....	Flush
Dutton	“ opposite Brooks' Mill.....	Flush
Dutton	“ opposite L. C. Hall's.....	Flush
Dutton	“ corner Willie Street.....	Flush
Dutton	“ opposite Cider Mill.....	Flush
Oliver	“ corner Wannalancit Street.....	Flush
Western Avenue,	opposite Elevator.....	Flush
Western	“ opposite Whitney & Tibbetts'.....	Post
Western	“ opposite Freight Depot.....	Flush
Willie	“ opposite end Cushing Street.....	Flush
Willie	“ corner Franklin Street.....	Flush
Willie	“ corner Cross Street.....	Flush
Cushing	“ opposite No. 72.....	Post
Cushing	“ opposite No. 57.....	Post
Cushing Street,	opposite No. 47.....	Post
Cushing	“ opposite No. 33.....	Post
Cushing	“ near Liberty Square.....	Post
Rock	“ opposite No. 36.....	Flush
Rock	“ opposite No. 57.....	Flush
Rock	“ corner Mt. Vernon Street.....	Flush
Broadway	“ corner Fletcher Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7—Continued.

Broadway	“	opposite No. 57.....	Flush
Broadway	“	corner Rolfe Street.....	Flush
Fourth Avenue,		opposite Mt. Hope Street.....	Flush
Mammoth Road,		opposite City Line.....	Flush
Mammoth	“	opposite Blacksmith Shop.....	Flush
Mammoth Road,		opposite Chase Avenue.....	Flush
Mammoth	“	opposite Seventh Avenue.....	Flush
Mammoth	“	opposite J. C. Tolman's.....	Flush
Mammoth	“	opposite I. M. Chase's.....	Flush
Mammoth	“	opposite Fourth Avenue.....	Flush
Mammoth	“	corner Second Avenue.....	Flush
Mammoth	“	corner Riverside Street.....	Flush
Chase Village		.....	Flush
Second Avenue, No 3.....			Flush
Adams Street, No. 63.....			Post
Adams	“	opposite No. 30.....	Post
Adams	“	corner Lagrange Street.....	Post
Adams	“	corner Suffolk Street.....	Flush
Adams	“	corner Salem Street.....	Flush
Adams	“	opposite No. 150.....	Flush
Adams	“	opposite No. 117... ..	Flush
Adams	“	front of Sister's.....	Flush
Adams	“	corner Cross Street.....	Flush
Adams	“	corner Broadway.....	Flush
Common	“	corner Cross Street.....	Flush
Common	“	opposite No. 25.....	Flush
Common	“	opposite No. 57.....	Flush
Common	“	opposite Castle's Square.....	Flush
Franklin	“	opposite No. 15.....	Flush
Mt. Vernon Street,		corner Broadway.....	Flush
Mt. Vernon	“	corner Hosiery.....	Flush
Mt. Vernon	“	opposite No. 65.....	Flush
Mt. Vernon	“	corner Bowers.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7—Continued.

Mt. Washington Street, opposite No. 35.....	Flush
Mt. Washington “ corner Bowers Street.....	Flush
Mt. Washington “ opposite No. 18.....	Flush
Staples Street, opposite Franklin Court.....	Flush
Varney “ corner Mt. Washington Street.....	Flush
Varney “ corner Mt. Vernon Street.....	Flush
Varney “ opposite No. 38.....	Flush
School “ corner Perrin Street.....	Flush
School “ opposite No. 171.....	Flush
School “ opposite No. 167.....	Flush
School “ opposite Lombard Street.....	Flush
School “ corner Oliver Street.....	Flush
School “ near corner Butterfield Street.....	Flush
Butterfield “ corner Mt. Vernon Street.....	Flush
Butterfield “ opposite No. 13.....	Flush
Third Avenue	Post

RESERVOIRS.

- One on Chestnut, corner of Willow Street.
- One on Myrtle, at Head of Fifth Street.
- One on Fourth, near Read Street.
- One on Bridge, corner Seventh Street.
- One on Tyler, corner George Street.
- One on Union, corner Chapel Street.
- One on Chapel, corner Keene Street.
- One on Central, at Hosford Square.
- One on Westford, corner Grand Street.
- One on Branch, corner Queen Street.
- One on Middlesex, corner Wilder Street.
- One on Forest Street.
- One on Salem, corner Decatur Street.
- One on Cross, between Fletcher and Willie Streets.
- One on Varney, near Mt. Vernon Street.
- Two openings in canal on Moody Street.

FOURTEENTH
ANNUAL REPORT
OF THE
Lowell Water Board
TO THE
CITY COUNCIL,

ACCOMPANIED BY THE REPORTS OF THE CITY ENGINEER
AND OF THE SUPERINTENDENT OF WATER WORKS,
TO THE WATER BOARD.

JANUARY 10th, 1887.



LOWELL, MASS.:
CITIZEN NEWSPAPER CO., PRINTERS.
1887.

CITY OF LOWELL.

IN WATER BOARD, January 10th, 1887.

Read and accepted and ordered to be transmitted to the City Council.

Attest: ANDREW J. DEVOLL, *Clerk.*

IN BOARD OF ALDERMEN, January 17th, 1887.

Read and ordered on file. Sent down.

DAVID W. O'BRIEN, *City Clerk.*

IN COMMON COUNCIL, January 17th, 1887.

Received, read, and ordered on file in concurrence.

DAVID CHASE, *Clerk.*

CIVIL ORGANIZATION, LOWELL WATER WORKS.

From their commencement to Jan. 1, 1887.

JOINT SPECIAL COMMITTEES.

1869.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Cyrus H. Latham, alderman.
William H. Anderson, councilman.
Frederick T. Greenhalge, councilman.
Albert A. Haggett, councilman.
Edwin Lamson, councilman.

1871.

Edward P. Sherman, mayor.
Albert A. Haggett, alderman.
Henry P. Perkins, councilman.
Jeremiah Crowley, councilman.
William Dobbins, councilman.

1870.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Albert A. Haggett, councilman.
Wm. Kittredge, councilman.
Wm. O. Fiske, councilman.

1872.

Josiah G. Peabody, mayor.
Alexander G. Cumnock, alderman.
Henry P. Perkins, councilman.
Nathaniel C. Sanborn, councilman.
Crawford Burnham, councilman.

WATER COMMISSIONERS.

1870-'71-'72.

Levi Sprague, chairman.
Wm. E. Livingston.
Henry H. Wilder, resigned Sept. 26, 1871.
Samuel K. Hutchinson, elected to fill vacancy.

WATER BOARD.

1873.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Jonathan P. Folsom, alderman.
Nathaniel C. Sanborn, councilman.
Nathan W. Frye, councilman.

1878.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
Charles H. Harvey, councilman.

1874.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Nathaniel C. Sanborn, alderman.
Nathan W. Frye, councilman.
G. W. S. Hurd, councilman.

1879.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
Edward B. Pierce, councilman.
Robert G. Bartlett, councilman.

1875.

Geo. Runels, president, from the citizens, resigned Nov. 9, 1875.
Cyrus H. Latham, president *pro tem.*: from the citizens.
Benjamin Walker, alderman.
Albert A. Haggett, councilman.
Earl A. Thissell, councilman.

1880.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Robert Wood, alderman.
Charles C. Hutchinson, councilman.
Edward B. Pierce, councilman.

1876.

Cyrus W. Latham, pres., from the citizens.
Earl A. Thissell, from the citizens.
Albert A. Haggett, alderman.
Benj. C. Dean, councilman, resigned May, 1876.
John F. Kimball, councilman, elected to fill vacancy.
Orford R. Blood, councilman.

1881.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Robert Wood, alderman.
Charles C. Hutchinson, councilman.
Samuel Hosmer, councilman.

1877.

Cyrus H. Latham, pres., from the citizens.
Albert A. Haggett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
James W. Bennett, councilman.

1882.

Albert A. Haggett, pres., from the citizens.
Charles C. Hutchinson, from the citizens.
Thomas R. Garity, alderman.
William N. Osgood, councilman.
Frank Wood, councilman.

WATER BOARD.

1883.

Albert A. Haggett, pres., from the citizens.
Charles C. Hutchinson, from the citizens.
George W. Fifield, alderman.
Edward B. Pierce, councilman.
John J. Hogan, councilman.

1885.

Albert A. Haggett, pres., from the citizens,
C. A. R. Dimon, from the citizens.
James Francis, alderman.
Alfred M. Chadwick, councilman.
Arnold S. Welch, councilman.

1884.

Albert A. Haggett, pres., from the citizens.
C. A. R. Dimon, from the citizens.
George W. Fifield, alderman.
Edward B. Pierce, councilman.
John J. Hogan, councilman.

1886.

Walter Coburn, pres., from the citizens.
C. A. R. Dimon, from the citizens.
James Francis, alderman.
Arnold S. Welch, councilman.
Frank S. Howe, councilman.

1887.

Walter Coburn, pres., from the citizens.
C. A. R. Dimon, from the citizens.
James Francis, alderman.
Arnold S. Welch, councilman.
Frank W. Howe, councilman.

Investigations were made at various times, by order of the City Council for the introduction of pure water into the city, viz.: By Joint Special Committee consisting of the following named citizens :

1838.

Oliver M. Whipple, alderman.
George Brownell, alderman.
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
David Dana, councilman.

1839.

Oliver M. Whipple, alderman.
John Clark, alderman.
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
John Nesmith, councilman,

1848.

Jefferson Bancroft, mayor.
Oliver M. Whipple, alderman.
David Dana, alderman.
John Avery, councilman.
Otis L. Allen, councilman.
Thomas Hopkinson, councilman.
Ignatius Tyler, councilman.

1865.

George W. Norris, alderman.
Edward F. Watson, alderman.
Charles W. Dodge, councilman.
T. L. P. Lamson, councilman
John Pearson, councilman.

1866.

Josiah G. Abbott, mayor.
Charles W. Dodge, alderman.
Joseph L. Sargent, alderman.
Benjamin Walker, councilman.
Edward C. Rice, councilman.

WATER BOARD, 1887.

President WALTER COBURN.

Term expires first Monday in May, 1887.

C. A. R. DIMON,

Term expires first Monday in May, 1888.

ALDERMAN JAMES FRANCIS.

Councilman ARNOLD S. WELCH.

Councilman FRANK W. HOWE.

Clerk ANDREW J. DEVOLL.

Superintendent of Works HORACE G. HOLDEN.

Foreman of Works THOMAS DOYLE.

Engineer at Pumping Station JAMES P. ROBERTS.

Service Clerk LEONARD T. FARRIS.

Inspectors.

JOHN J. BANCROFT.


THOMAS E. LENNON.

WILLARD S. KNOWLTON.

HENRY E. SPRAGUE.

Meter Inspector.

ROBERT GARDNER.

 The Water office is open daily, from 9 A. M. to 3 P. M., and on Monday evenings, from 7 to 8 o'clock.

REPORT OF THE WATER BOARD.

OFFICE OF THE LOWELL WATER BOARD,
LOWELL, MASS., JAN. 10, 1887.

To the City Council of the City of Lowell:

GENTLEMEN — The Lowell Water Board in accordance with the Ordinances of the City of Lowell herewith presents the Fourteenth Annual Report of the Board:

The year 1886, like its predecessor, shows a continued increase in net charges for water used, and the Department has reached a point where it is self-sustaining. The increase over the preceding year is \$9,903.43, leaving us a balance of \$4000 over all expenses. The dwelling houses of the Engineer and of the man in charge at the Beacon Street Reservoir have been put in thorough repair at a cost of some \$800, and the expense charged to maintenance. The Works are as nearly completed as they ever will be, as extensions and improvements will be necessary every year, to a certain extent.

The Department in all its branches is in excellent condition.

For details of the workings of the Department, we would refer you to the Report of the Superintendent and Report of the Engineer accompanying.

The first meeting of the Board for 1886, was held January 25th.

The Board, consisting of the following members, Walter Coburn, President, and Col. C. A. R. Dimon from the citizens, and Alderman James Francis and Councilmen Arnold S. Welch and Frank W. Howe, from the City Government.

ORGANIZATION.

The Annual Organization under the City Ordinances occurred May 3d. The Board was composed of the same members as above — Col. C. A. R. Dimon having been re-elected as a member of the Board from the Citizens. The Board organized by the choice of Walter Coburn as President, and A. J. Devoll as Clerk.

CONTRACTS.

February 3d a contract was made with the Mellert Foundry and Machine Company, of Reading, Pa., for one hundred and fifteen tons of pipe and specials amounting to \$3,209.50. July 17th a contract was made with Wm. E. Livingston for one thousand tons of Maryland Co.'s Cumberland Coal, at \$4.65, delivered.

STATISTICS.

The total amount of water pumped during the year was 1,441,622,640 U. S. gallons, an increase over the year 1885 of 141,856,360 U. S. gallons. The daily average was 3,949,738 U. S. gallons pumped into the Low Service, and 55,487 U. S. gallons pumped into the High Service Reservoir,

an increased daily average over the year 1885, in the Low Service, of 338,834 U. S. gallons.

1392 $\frac{1550}{1000}$ tons of coal have been used during the year, 31 1-2 tons of which were used for the High Service engine; 245 tons for the Worthington engine; 1,107 1-4 tons for the Morris engine.

There have been 3211 $\frac{47}{100}$ gallons of water raised 164 feet high for each pound of coal consumed by the High Service engine, 4321 $\frac{24}{100}$ gallons raised 164 feet high for each pound of coal consumed by the Worthington engine, and 5511 $\frac{88}{100}$ gallons raised 164 feet high for each pound of coal consumed by the Morris engine. These remarkable results show the perfect condition in which the property of the city is kept at the Pumping Station.

The result of the year's work at the Pumping Station is gratifying to the Board, and to every citizen interested in the Department. The cost of pumping 1,000,000 gallons has been reduced from \$7.12 in 1885, to \$6.52 in 1886, by the Morris engine, and from \$8.22 in 1885, to \$7.53 in 1886, by the Worthington engine.

This is the lowest cost ever reached by this Department, and our Engineer, Mr. James P. Roberts, may feel a justifiable pride in the results attained.

The total net charges for water-rates for the year, after deducting all abatements and charges for service pipes, have been \$163,651.75, against \$153,748.32 for the year 1885, an increase for the year of \$9,903.43. Total number of water-takers, 14,710.

The following table will show the monthly charges for water from the commencement of the Works to Dec. 31, 1886, with all abatements and total net charges:

Charges for Water by Months, from Commencement to December 31, 1886.

MONTHS.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.
January.	.....	\$ 363 94	\$ 418 96	\$ 150 45	\$ 126 51	\$ 169 14	\$ 282 44	\$ 233 73	\$ 182 58	\$ 233 37	\$ 271 52	\$ 472 76	\$ 702 05	\$ 410 21
February.	.....	35 53	235 43	238 85	86 84	144 38	238 19	349 08	146 40	139 22	136 06	347 66	352 90	439 68
March.	\$6,124 94	50,200 10	65,417 68	82,249 51	89,177 52	82,225 43	80,603 69	80,567 44	89,210 88	90,856 37	94,956 65	98,692 13	102,961 30	104,537 77
April.	785 89	1,739 50	935 20	265 34	584 11	1,970 12	9,242 84	6,478 39	540 20	403 64	263 10	351 73	439 64	1,355 01
May.	2,988 16	3,274 09	2,147,96	874 47	1,819 65	1,121 43	2,751 35	1,476 15	879 61	1,191 41	984 84	1,495 90	1,062 34	1,760 48
June.	5,818 78	2,865,86	2,887 43	4,460 91	2,389 52	3,903 69	6,126 86	868 08	12,574 12	16,401 62	17,757 44	18,769 27	21,203 61	23,708 43
July.	4,833 52	1,889 03	1,926 31	582 68	3,147 78	1,261 24	1,213,13	11,457 84	273 00	959 80	1,059 37	899 21	1,053,36	1,434 99
August.	2,728 30	498 50	449 86	771 87	799 88	677 01	563 35	459 17	514 46	634 40	902 76	984 17	828 40	1,173 44
September.	2,827 07	3,245 06	865 90	495 97	3,493 90	4,998 07	6,584 86	8,108 23	10,088 19	10,904 30	12,467 32	12,939 94	13,452 97	16,105 05
October.	9,729 05	872 10	2,947 93	4,893 44	543 79	663 80	454 29	338 51	309 22	552 27	941 81	738 12	697 87	783 29
November.	761 21	634 03	573 35	1,445 65	518 72	1,220 27	1,405 89	620 56	873 16	378 97	1,615 65	693 41	477 10	686 02
December.	1,571 72	3,689 79	3,955 59	3,246 39	4,040 71	4,522 75	5,794 77	7,851 52	9,593 32	10,848 08	12,512 70	12,544 55	12,617 45	12,825 41
Totals.	\$39,168 64	\$69,307 39	\$82,861 60	\$99,674 93	\$98,178 93	\$102,877 32	\$115,261 20	\$118,808 70	\$125,975 27	\$133,503 45	\$143,869 22	\$148,928 85	\$155,848 98	\$165,279 78
Less abate- ments to date	.....	1,872 83	640 06	8,185 88	2,502 65	4,343 13	9,590 05	1,702 13	3,766 88	2,490 50	3,094 15	4,314 79	2,100 66	1,628 03
Net amounts	\$39,168 16	\$67,434 56	\$82,221 54	\$91,489 05	\$95,676 28	\$98,534 19	\$105,671 15	\$117,106 58	\$122,208 39	\$131,012 95	\$140,775 07	\$144,614 06	\$153,748 32	\$163,651 75

FINANCIAL STATEMENT.

The total gross amount of bills sent to the City Treasurer for collection for this Department during the year ending Dec. 31, 1886, is as follows, viz:

For Water Rates.....	\$96,539.37	
Metered water.....	68,740.41	
Total for the use of water.....		\$165,279.78
For service pipe and laying.....	\$1,718.48	
Meters sold.....	1,936.00	
Sundry accounts.....	4,841.44	8,495.92
Total charges for the year.....		\$173,775.70

The following statement exhibits receipts and expenditures for the year, the net cost of the Water Works, including the interest on the Water Loan, and all expenses in excess of receipts for water rates; also the total cost and expenses of the Works by taxation:

Net cost of Water Works to Jan. 1, 1886, as per last annual report.....	\$2,388,217.82
Expended during the year for Water pipes, and for laying the same, and all other items of	

CONSTRUCTION.

MATERIALS FOR MAINS, SERVICES, &C. :—		
Cast-iron pipe.....	\$5,676.48	
Cast-iron specials.....	305.06	
Wrought-iron pipe and fittings.....	200.23	
Iron castings.....	278.47	
Brass castings.....	15.22	
Lead pipe.....	1,257.00	
Lead pig.....	428.72	
Powder, fuse, &c.....	34.60	
Stop and waste cocks.....	551.00	
Hardware.....	60.99	
Teaming pipe.....	121.14	
Freight.....	371.16	
Tin pig.....	27.50	
Repairing tapping machine.....	26.00	
<i>Amounts carried forward,</i>	\$9,353.57	\$2,388,217.82

<i>Amounts brought forward,</i>	\$9,353.57	\$2,388,217.82
Drinking fountain.....	125.00	
Sundries	15.00	
Brass fittings.....	39.86	
Wood and coke.....	22.00	
Concrete.....	7.91	
Service boxes.....	633.59	
Water gates.....	45.39	
Hydrants	680.40	\$10,922.72
Cr. by cast-iron pipe sold to town of Rockland.....		504 26
		<hr/>
		\$10,418,46

LABOR, PAY-ROLL ON ACCT. OF —

Extensions.....	\$2,105.97	
Services.	923.33	
Piping.....	813.02	
Foreman.....	914 77	\$4,757.09
		<hr/>
		\$15,175.55

MAINTENANCE.

Expended for repairs, current expenses, pumping, &c., viz:—

REPAIRS.

Iron, steel, &c.....	\$ 105 82
Iron castings.....	101.64
Tools, purchased and repaired.....	31.49
Hardware.....	62.88
Lumber.....	112.27
Carpenter work	219 87
Teaming.....	34.50
Boat and oars	18.05
Concrete	90.25
Brick.....	17.72
Sundries.....	140.86
Labor pay-roll.....	4,334.86
Making and repairing screens.....	33.70
Packing hydrants.....	30.00
Service boxes.....	418.31
Wrought-iron pipe and fittings.....	65 00
Lead pipe	700.95
Stop and waste cocks.....	400.82
Hydrant repairs.....	8.10
Sand	10.00
Repairs on chimney and lightning rod.....	228.91

Amounts carried forward, \$7,166.00 \$2,388,217.82

<i>Amounts brought forward,</i>	\$7,166.00	\$2,388,217.82
Repairs of Pumping Station.....	1,866.93	
of Engineer's house.....	410 00	
on trusses under Concord River Bridge.....	101.00	

Total repairs.....	<u>\$9,543.93</u>	
--------------------	-------------------	--

CURRENT EXPENSES. Pay-roll.

Labor	\$ 48.75	
Salaries.....	1 900.00	
Inspection.....	3.160.32	
Clerk hire.....	3,264.47	
City Engineer.....	406.00	
	<u> </u>	\$8,779.54

Materials.

Difference in exchange of horse.....	100.00
Printing, stationery, &c.....	519.42
Postage stamps.....	49.10
Travel and express	39.50
Sundries, office.....	47.70
Telephone	214.12
Exchange in sleighs.....	50 00
Coal for yard	6.75
Corn, oats, straw, &c.....	186.52
Gas	2.18
Sundries, pipe yard.....	14.99
Horse shoeing.....	73.55
Repairing wagons.....	80.22
Repairing harnesses.....	26.15
Labor at pipe yard.....	715.50
Repair of office.....	356.61
Office furniture.....	273.94
Rent of water office.....	75.00
Exchange of carriage.....	95.50

Total current expenses.....	<u>\$11,706.29</u>
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PUMPING ACCOUNT.

Coal	\$4,924.76
Labor pay-roll.....	3,946.81
Iron, steel, &c.....	25.39
Oil.....	93.72
Gas	124.34
Wood	30.94
Freight.....	63
Files	11.01

<i>Amounts carried forward,</i>	\$9,157.60	\$2,388,217.82
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<i>Amounts brought forward,</i>	\$9,157.60	\$2,388,217.82
Lumber	105.31	
Sundries	73.01	
Hardware.....	37.41	
Concrete.....	44 95	
Printing, stationery, &c.....	12.00	
Total pumping account.....	<u>\$9,430.28</u>	

METER ACCOUNT.

Meters purchased.....		\$1,379.50
Labor pay-roll.....	\$1,889.54	
Repairs on meters	387.40	
Freight.....	13.67	
Supplies.....	49.15	
Unions	38.25	
Testing meters.....	19.13	
Tools for repairs of meters.....	270 59	2,667.73
Total meter account.....		<u>\$4,047.23</u>

RESERVOIR, BEACON STREET.

Manure.....	\$ 24 00
Sundries.....	1.40
Cutting and storing hay.....	98 75
Teaming	192.88
Labor, pay-roll.....	694.82
Drs. Gilman and Parker's services	164.00
Grass seed.....	7 17
Use of land for draining reservoir.....	100.00
Gravel	24.50
Drain pipe and cement.....	190.71
Repairs on reservoir house.....	407.01
Total Reservoir account.....	<u>\$1,905.24</u>

RECAPITULATION.

Total construction account.....	\$15,175.55
“ repairs.....	\$ 9,543.93
“ Current expenses.....	11,706.29
“ Pumping	9,430.28
“ Meter.....	2,667.73
“ Reservoir (Bacon Street)...	1,905.24
Total maintenance account.....	<u>\$35,253.47</u>
Meters purchased.....	1,379.50

Amount carried forward,\$2,388,217.82

<i>Amount brought forward.</i>		\$2,388,217.82
Amount expended for the year exclusive of interest..	\$ 51,808.52	
Interest paid during the year.....	115,535.00	
		<hr/>
		\$167,343.52
		<hr/>
Total expenditures for the year.....		\$2,555,561.34

CREDITS.

Amounts received by the City Treasurer during the year for water rates, service pipes and sundries, viz:		
For account of 1885.....	\$ 15,421.71	
" " 1886.....	153,335.82	
		<hr/>
Total receipts for the year.....		\$168,757.53
		<hr/>
Net cost of works, including interest on Water Loan to Jan. 1, 1887.....		\$2,386,803.81
Present debt of the city, by bonds and notes, on account of construction of Water Works..		\$1,837,000.00
		<hr/>
Total amount paid from the City Treasury to Jan. 1, 1887, by taxation on account of Water Works, in excess of receipts from Loans and water rates.....		\$549,803.81
Value of Water Works Sinking Fund, Jan. 1, 1887.		517,994.42
		<hr/>
		\$1,067,798.23
		<hr/>
Net cost of Works, including interest on Water Loan to Jan. 1, 1887.....		\$2,386,803.81
Whole amount paid by taxation, and by appropriation for the Sinking Funds, and the value of the accumulation of said Funds, Jan. 1, 1887.....		\$1,067,798.23
		<hr/>
Debt of the city on account of Water Works, in excess of Water Works Sinking Funds, Jan. 1, 1887.....		\$1,319,005.58
		<hr/>

The following table will show the gross cost of the Water Works, yearly, from the commencement of the same to Jan. 1st, 1887 :

Expended in 1870	\$ 95,057.00
“ 1871	624,151.66
“ 1872	560,708.40
“ 1873	349,717.87
“ 1874	233,370.63
“ 1875	275,660.78
“ 1876	221,502.24
“ 1877	163,814 28
“ 1878	158,510.15
“ 1879	150,047.82
“ 1880	154,391.59
“ 1881	231,171.27
“ 1882	173,645.92
“ 1883	179,713.23
“ 1884	174,552.71
“ 1885	175,880.24
“ 1886	167,343.52
<hr/>	
Gross cost of Works to Jan. 1, 1887.....	\$4,089,239.31
Receipts from various sources to Jan. 1, 1887.....	1,702,435.50
<hr/>	
Net cost of Works to Jan. 1, 1887.....	\$2,386,803.81

The following table will show the expenditures and receipts of the Works from 1873 to 1887, exclusive of the interest on the Water Debt;

	Expenditures.	Receipts.	Expenditures in excess of receipts.	Receipts in excess of expenditures.
1873	\$188,376.59	\$ 57,739.48	\$130,637.11	
1874	128,108.63	80,625.66	47,479.98	
1875	170,095.78	94,908.14	75,187.64	
1876	115,012.24	98,815.54	16,196.70	
1877	53,988.72	100,825.63		\$46,837.91
1878	49,900.15	104,142.87		54,242.72
1879	42,157.82	110,185.34		68,027.52
1880	45,031.59	123,740.49		78,708.90
*1881	121,601.27	128,053.97		6,452.70
†1882	64,525.92	140,397.96		75,872.04
1883	65,673.23	152,582.99		86,909.76
1884	64,982.71	154,437.55		89,454.84
†1885	64,030.24	157,956.79		93,926.55
1886	51,808.52	168,757.53		116,949.01

*In 1881 there were expended the following extraordinary amounts :

For river crossing, 24-inch reserve line.....\$ 9,988.59

For high service water supply..... 57,969.39

†In 1882, high service water supply..... 10,898.59

†In 1885, Beacon street reservoir..... 14,766.27

Had these extraordinary expenses not occurred, the excess of receipts over expenditures for those years would have been respectively \$74,410.68, \$86,770.63 and \$108,692.82.

This Department received an appropriation of \$3000 for 1886, which sum covered the amount to be paid yearly on the temporary loan of \$15,000, levied in 1885, for repairing the paving of the Beacon Street Reservoir.

Superintendent Holden's length of service and the excellent condition in which streets and sidewalks are left, after being torn up by putting in new, or renewing old service pipe and repairing mains, attest his attention to duty, and the value of his knowledge and experience as an officer of the department and a servant of the city.

Mr. A. J. Devoll, the Clerk of the Board, has attended to his duties in a thoroughly satisfactory manner, not only to the Board but to all who have had occasion to do business with the office; the books of the Department are well kept, and collections closer than for several years past.

The force of Inspectors has been increased by one man, whose especial duty it is to detect leaks and undue waste. The result, after a short experimental trial, has more than realized the expectations of the members of the Board who proposed the addition.

Clerks and assistants in the office have been employed from time to time as the service requires, without regard to political results or criticism.

During the year a machine shop has been built at the Pumping Station, and placed under the supervision of Mr. Roberts, for the repair of meters. It has been satisfactory in its workings and has saved considerable expense to all whose meters have needed repairs.

The Ordinance licensing Plumbers and Pipe Fitters, has not proved as great a success as the Board of 1885

had anticipated. For the City to receive the full benefits of the Ordinance, there should be appointed an Inspector of Plumbing and Piping, to enforce its provisions.

Respectfully submitted,

WALTER COBURN,
CHAS. A. R. DIMON,
JAMES FRANCIS,
ARNOLD S. WELCH,
FRANK W. HOWE,

Members of the Lowell Water Board.

IN WATER BOARD, Jan. 10, 1887.

Read and accepted, and ordered to be transmitted to the City Council.

Attest:

ANDREW J. DEVOLL,
Clerk.

ACCOUNTS OF THE TREASURER.

CITY TREASURER OF LOWELL IN ACCOUNT WITH LOWELL WATER WORKS.

Dr.				Cr.			
1886.				1886.			
				By payments during the year, viz :			
				Interest.	Salaries.	Drafts.	Refunds.
Jan.	Water receipts	\$ 7,250.49		\$ 3,120.00	\$158.33	\$2,826.17	
Feb.	“ “	5,499.26		120.00	158.34	1.665.89	
Mar.	“ “	2,688.26		360.00	158.33	5,074.09	
Mar.	Appropriation	3,000.00					
Apr.	Water receipts	7,756.35		1,655.00	158.33	4,207.34	
May	“ “	50,199.10		20,560.00	158.34	4.987.67	
June	“ “	29,252.87		31,422.50	158.33	3,694.48	\$1,244.17
July	“ “	15,792.81		1,770.00	158.33	4,574.89	9.88
Aug.	“ “	11,805.85		390.00	158.34	2,996.47	
Sept.	“ “	7,006.09		300.00	158.33	5.913.41	
Oct.	“ “	15,180.39		1,955.00	158.33	6,407.19	6.50
Nov.	“ “	11,386.02		20,710.00	158.34	4,704.23	
Dec.	“ “	6,180.56		33,172.50	158.33	3,357.84	
				\$115,535.00	\$1,900.00	\$50,409.67	\$1,260.55
				<div style="text-align: right;"> \$169,105.22 Balance . . . 3,892.83 <hr/> \$172,998.05 </div>			
<div style="text-align: right;"> \$172,998.05. <hr/> </div>							

FOURTEENTH ANNUAL REPORT
OF THE
City Engineer to the Water Board.

JANUARY 1, 1887.

REPORT OF THE ENGINEER.

OFFICE OF THE CITY ENGINEER,
LOWELL, MASS., Jan. 1, 1887.

To the Lowell Water Board:

GENTLEMEN:—The undersigned respectfully submits the Fourteenth Annual Report of the work done by the pumping engines at the Pumping Station, and the records as taken at the Beacon Street Reservoir.

The calculations of the duty of the engines were made from the records kept by Mr. James P. Roberts, the engineer in charge.

All the coal used at the Station has been charged to pumping, including what is used for running the small stationary engine, which drives the machinery in the new shop.

In the calculation of the duty nothing has been deducted for ashes or heating the building, and nothing added to the head for friction in the pumps.

The largest quantity pumped during any run of twenty-four hours, is as follows: Morris Engine, December 10th, 6,045,440 gallons, and the Worthington Engine, October 14th, 6,631,830 gallons. The Worthington High Service Engine pumped January 26th, in fifteen hours, 572,264 gallons.

In the table of the running expenses of the engines the amounts will not agree with the pumping account as given in the report of the Water Board, for the reason that only the articles used during the year are included. In making up the cost of running expenses the pay of the men is divided proportionally to the number of hours run by each engine (Morris 84 per cent. and Worthington 16 per cent).

The cost of repairs on boilers, sundries, tools and stock is divided proportionally to the quantity of water pumped by each engine (Morris Engine 86 per cent., Worthington Engine 14 per cent).

The average cost of pumping one million gallons from the Beacon Street Reservoir to the High-Service Reservoir, is eight dollars and eighty-five cents, which added to the cost of raising the same quantity into the Low-Service Reservoir, makes the total cost of raising one million gallons into the High-Service Reservoir fifteen dollars and thirty-seven cents.

Table Showing Work Done with Morris Engine (Beam and Fly Wheel) and Boilers for each Month During the Year 1886.

MONTHS.	No. of days Pumping.	Ave No. of hours Pumping per day.	Number of hours Pumping per month.	Number of Strokes made per month.	Average No. of Strokes made per minute.	Average head including friction in feet.	Quantity Pumped per month in U. S. Gallons.	Average quantity pumped per day in U. S. gallons.	No. gal. of water raised in-100 lbs. coal, to reserv-oir per lb. of total deduction for coal consumed.	Duty in lbs., 1 foot high, with 100 lbs. coal, used in pump- ing only, no de-duction for ashes or clinkers.	Duty on total coal consumed,
January	26	19-41	511-40	387,325	12.62	163.85	123,944,000	4,767,077	559.	91 362,333	76,289,719
February	21	21-25	449-50	336,691	12.47	164.14	107,741,120	5,130,529	561.	92,635,875	76,762,342
March	27	17-29	471-55	352,575	12.45	165.88	112,824,000	4,178,667	551.	90,734,638	76,195,825
April	26	16-29	428-45	323,746	12.58	163.50	103,598,720	3,984,566	555.	90,432,151	75,691,470
May	16	14-51	237-30	175,703	12.33	163.48	56,224,960	3,514,060	562.	92,293,083	76,526,735
June	26	18-20	476-30	357,967	12.52	163.86	114,549,440	4,405,748	554.	89,850,537	75,606,470
July	22	18-48	413-45	309,866	12.48	163.72	99,157,120	4,507,142	543.	87,710,966	74,072,919
August	27	18-28	498-30	375,675	12.56	164.02	120,216,000	4,452,444	531.	85,587,698	72,519,143
September . . .	26	17-52	464-30	348,871	12.52	163 71	111,638,720	4,293,797	537.	86,616,604	73,281,359
October	17	16-15	276-15	209,841	12.66	163.72	67,149,120	3,949,948	564.	91,712,804	76,927,871
November . . .	22	12-40	278-30	207,898	12.44	165.19	66,527,360	3,023,971	554.	92,326,399	76,323,171
December . . .	27	21-01	567-20	433,061	12.72	163 91	138,579,520	5,132,575	563.	91,406,686	76,858,820
Totals and Averages.	283	17-56	5075-00	3819,219	12.54	164.08	1,222,150,080	4,318,551	552.	89,959,360	75,465,444

Table Showing Work Done with Worthington Duplex Engine for each Month During the Year 1886.

MON 'HS.	No. of days Pumping.	Ave. No. of hours Pumping per day.	No. of hours Pumping per month.	No. of strokes made per month.	Ave. No. of strokes made per minute.	Ave. head including friction in feet.	Quantity Pumped per month in U. S. gallons.	Ave. quantity Pumped per day in U. S. gallons.	No. gals. of water raised in reservoir per lb. of total coal consumed.	Duty in lbs. per foot high, with 100 lbs. coal used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consumed no deduction, for ashes or clinkers.
January	3	21-25	64-15	42,199	10.95	165.88	13,081,690	4,360,563	426	69,825,097	58,907,812
February	6	22-35	135-30	92,275	11.35	165.78	28,605,250	4,767,542	437	70,953,881	60,337,885
March	9	16-37	149-35	73,425	8.18	169.21	22,761,750	2,529,083	414	66,182,542	58,360,963
April											
May	11	17-22	191-00	150,929	13.17	163.55	46,787,990	4,253,454	433	70,702,034	59,049,285
June											
July	7	18-59	132-55	105,722	13.26	164.58	32,773,820	4,681,974	425	69,052,051	58,229,137
August											
September											
October	10	14-03	140-30	123,872	14.69	164.38	38,400,320	3,840,032	444	72,063,347	60,886,863
November	15	11-33	173-10	119,554	11.51	166.41	37,061,740	2,470,783	435	70,506,841	60,328,032
December											
Totals and Averages.	61	16-11	986-55	707,976	11.96	165.68	219,472,560	3,597,911	432	70,262,624	59,654,078

**Table Showing Amount of Coal Used for Morris Engine at Pumping Station
During the Year 1886.**

MONTHS.	COAL CONSUMED.			
	For starting fires in Pounds.	When Pumping in Pounds.	For banking fires in Pounds.	Tot'l per Month in Pounds.
January . . .	26,400	185,250	10,200	221,850
February . . .	24,000	159,100	8,900	192,000
March . . .	24,000	171,900	8,800	204,700
April	22,200	156,100	8 200	186,500
May	12,300	83,000	4,800	100,100
June	24,000	174,100	8,800	206,900
July	21,000	154,250	7,400	182,650
August	25,200	192,000	9,400	226,600
September . .	23,400	175,850	8,600	207,850
October	13,800	99,900	5,400	119,100
November . . .	15,000	99,200	5,800	120,000
December . . .	28,800	207,100	10,400	246,300
Totals	260,100	1,857,750	96,700	2,214,550

**Table Showing Amount of Coal Used for Werthington Duplex Engine at
Pumping Station During the Year 1886.**

MONTHS.	COAL CONSUMED.			
	For starting fires in Pounds.	When Pumping in Pounds.	For banking fires in Pounds.	Tot'l per Month in Pounds.
January	3,600	25,900	1,200	30,700
February	7,200	55,700	2,600	65,500
March	3,900	48,500	2,600	55,000
April				
May	14,400	90,200	3,400	108,000
June				
July	9,900	65,100	2,200	77,200
August				
September . . .				
October	10,800	73,000	2,600	86,400
November	8,700	72,900	3,600	85,200
December				
Totals	58,500	431,300	18,200	508,000

Table Showing Work Done with Worthington High Service Engine, 1886.

MONTHS.	No. of days Pump ing.	Average number of hours pumping per day.	Number of hours Pumping per month.	Number of strokes made per month.	Average number of strokes made per minute.	Average head including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. Gallons.	No. of gallons of water pumped into reservoir per lb. of total coal consumed.	Coal in lbs. used when pumping.
January,	4	12-45	51-00	134,174	43.85	78.39	1,878,436	469,609	318	5,900
February,	3	13-10	39-30	97,531	41.15	78.27	1,365,434	455,145	307	4,450
March,	5	10-03	50-15	131,501	43.62	78.90	1,841,014	368,203	321	5,730
April,	3	11-20	34-00	77,364	37.92	78.67	1,083,096	361,032	308	3,510
May,	4	11-15	45-00	101,786	37.70	78.67	1,425,004	356,251	351	4,060
June,	4	13-08	52-30	121,691	38.63	78.67	1,703,674	425,918	328	5,200
July,	6	15-30	93-00	176,186	31.57	79.06	2,466,604	411,101	320	7,700
August,	5	11-06	55-30	135,087	40.57	78.67	1,891,218	378,244	324	5,840
September,	4	10-56	43-45	103,241	39.33	78.67	1,445,374	361,343	316	4,570
October,	5	11-24	57-00	121,172	35.43	78.20	1,696,408	339,282	320	5,300
November,	4	10-15	41-00	89,799	36.50	77.51	1,257,186	314,297	314	4,000
December,	5	14-12	71-00	157,091	36.88	78.67	2,199,274	439,855	323	6,800
Totals and Averages,	52	12-11	633-30	1,446,623	38.06	78.53	20,252,722	389,475	321	63,060

PUMPING STATION, MORRIS ENGINE.

Running Expenses for the Year 1886.

Pay of engineers and firemen.....	\$3,219.15
775 $\frac{848}{2000}$ tons coal (Powelton 1885), at \$3.72.....	2,884.58
71 $\frac{870}{2000}$ tons coal (Cumberland, 1886), at \$5.268.....	376.32
25 $\frac{630}{2000}$ tons coal (Elk Garden, 1886), at \$4.018.....	101.72
235 $\frac{202}{2000}$ tons coal (George's Creek, 1886), at \$4.152.....	976.14
1 cord of wood.....	3.75
Gas for lighting works.....	104.14
69 pounds tallow, at 4 $\frac{1}{2}$ c.....	3.11
126 gallons cylinder oil, at 50c.....	63.00
106 gallons crude and cold test oil at 2048c.....	21.71
52 gallons lard oil, at 514c.....	26.73
165 pounds cotton waste, at 12 $\frac{1}{2}$ c.....	20.63
63 pounds soapstone packing, at 30c.....	18.90
21 pounds hemp packing, at 20c.....	4.20
2 $\frac{1}{4}$ pounds Jenkin's packing, at 80c.....	1.80
Repairs on engine.....	31.17
Repairs on boilers.....	33.78
Tools and stock.....	30.72
Engine register book.....	12.00
Sundries.....	31.46
Total.....	<u>\$7,965.01</u>

Cost of raising water into reservoir, per million gallons.....	\$6.52
Cost of raising water one foot high, per million gallons.....	.03 $\frac{97}{100}$

WORTHINGTON ENGINE.

Running Expenses for the Year 1886.

Pay of engineers and firemen.....	\$613.17
168 $\frac{400}{2000}$ tons coal (Powelton, 1885), at 3.72c.....	625.70
85 $\frac{1600}{2000}$ tons coal (George's Creek, 1886), at 4.152c.....	356.24
$\frac{6}{10}$ cords wood.....	2.25
Gas for lighting works.....	19.84
20 $\frac{1}{2}$ gallons cylinder oil, at 50c.....	10.25
8 gallons lard oil, at 514c.....	4.11
27 pounds cotton waste, at 12 $\frac{1}{2}$ c.....	3.37
9 $\frac{7}{8}$ pounds soapstone packing, at 30c.....	2.96
Repairs on boilers.....	5.50
Tools and stock.....	5.00
Sundries.....	5.12
Total.....	<u>\$1,653.51</u>
Cost of raising water into reservoir, per million gallons.....	\$7.53
Cost of raising water one foot high, per million gallons.....	.04 $\frac{55}{100}$

RESERVOIR, BEACON STREET, 1886.

MONTHS.	Depth in Feet.	Quantity in U. S. Gallons.	Temperature in Degrees.	
			Of Water.	Of Air.
January	18.17	27,449,500	32.81	24.39
February	17.56	26,451,600	32.03	25.02
March	17.76	26,784,400	33.07	33.54
April	17.75	26,766,500	45.08	52.05
May	17.91	27,020,400	57.77	*
June	17.68	26,650,100	65.09	*
July	17.73	26,726,800	71.40	*
August	17.57	26,459,800	71.36	*
September	18.09	27,329,700	67.23	58.92
October	17.96	27,101,400	54.57	50.33
November	18.31	27,684,000	41.78	41.47
December	17.82	26,870,800	32.30	27.04

* Temperature not taken.

Table showing the average monthly and daily consumption of water for the year 1886 :

MONTHS.	Gallons per Month.	Gallons per Day.
January	140,355,850	4,527,610
February	137,981,300	4,927,900
March	130,620,660	4,213,570
April	104,717,750	3,490,590
May	105,907,730	3,416,380
June	117,115,710	3,903,860
July	126,609,130	4,084,170
August	121,600,750	3,922,610
September	110,809,550	3,693,650
October	106,653,880	3,440,450
November	105,500,410	3,516,680
December	136,668,210	4,408,650
Total and average	1,444,540,930	3,957,650

Respectfully submitted,

GEORGE E. EVANS, *City Engineer.*

FOURTEENTH ANNUAL REPORT

OF THE

Superintendent of Water Works,

TO THE

LOWELL WATER BOARD.

JANUARY 1, 1887.

REPORT OF THE SUPERINTENDENT.

SUPERINTENDENT'S OFFICE, CITY HALL,
LOWELL, JANUARY 1st, 1887.

To the Lowell Water Board:

GENTLEMEN:—In compliance with the requirements of the City Ordinance relating to the Water Works, I respectfully submit herewith the Fourteenth Annual Report of the Superintendent of the Lowell Water Works, for the year ending December 31st, 1886.

The total amount of water pumped into the reservoir during the year was 1,441,622,640 gallons being an increase of 141,856,360 gallons over the amount pumped in 1885, and assuming the number of water users to be 65,000 will give an average daily consumption of about 60 gallons of water for each consumer. This of course includes all the water used for every purpose, such as domestic use, manufacturing, and for extinguishing fires, also water for steam boilers, drinking fountains, sprinkling streets, etc. The total quantity sold by meter measurement amounts to 326,999,950 gallons, an increase over last year of 10,580,900 gallons. The works are all in good condition. All needed repairs have been made together with many improvements.

FILTER GALLERY AND CONDUIT.

An inspection of the filter gallery showed that but a slight amount of sediment had collected on the bottom, while the sides and top were clean and in good condition.

The conduit has been blown off three times this season, in order to carry off the sediment which accumulates on the bottom after every freshet in the river. No repairs have been made on either the gallery or conduit this year.

PUMPING STATION.

The Morris engine has pumped 1,222,150,080 gallons and the Worthington has pumped 219,472,560 gallons of water into the reservoir. No repairs of any account have been made on either of

the engines or boilers. The rear of the coal shed has been extended back nine feet, giving room for storing about two hundred tons more coal than formerly. At the front of the shed, a shop has been built on and fitted up with tools for general repairs, including all the repairs of meters, etc.

The windows in the engine room have been lowered twenty-two inches, and lights of colored glass set between the upper and lower sashes, giving a much better outlook to the room.

An enclosed railing has been placed around the flywheel, and a small entrance door cut through the large doors in front of the building. A large storehouse has been built back of the coal shed, and the anterior portion of the grounds enclosed by a new slat fence.

An examination of the lightning rod on the boiler house chimney, showed it to be so badly corroded as to be practically useless, and after much inquiry and study of lightning rods, it was decided to put on a solid copper rod made by the R. I. Telephone and Electric Co. of Providence. The rod has for a ground connection, the six inch water main on Hampshire street. A new iron ladder has been attached to the outside of the chimney reaching to the top.

The coping around the chimney has been repaired and the cap repainted. The dwelling occupied by the engineer and the one also at the reservoir, were both in a dilapidated condition, but few repairs having been made on them since they were purchased. These have now been put in good repair, painted, papered and shingled, and are now in condition to last many years without much more expense.

HIGH SERVICE.

20,252,722 gallons of water have been pumped into the high service reservoir during the year, an increase of 1,860,684 gallons over last year. No extensions or services have been added to the high service system this year.

RESERVOIR.

For several years usually during the month of February the water in some sections of the city has developed a peculiar odor which has been designated as "swampy" and could be easily detected by any one placing their face close to a fresh drawn basin of water. The reason of this was attributed to the fact that in every case where the smell had been noticed, the reservoir as well as the river had for several weeks previous been covered with ice, leaving no chance for the air to get to the water. Last winter, as an experiment, the gate

connecting the inlet chamber of the reservoir with the 30-inch pipe through which the water flows to the opposite side of the reservoir was closed, and at the mouth of the overflow weir, an apron was built of 2-inch plank 6 inches wide, laid with 1 inch space between each plank, and a 3 inch joist fastened around the rim of the apron. So that as the water is pumped over the weir, it flows into this apron, and drops into the reservoir either through the cracks, or over the sides, and falling from two to six feet according to the height of water in the reservoir, it gets thoroughly aerated before passing into the main, and since this device has been adopted, the swampy smell has disappeared.

The debris remaining from last year's repairs at the reservoir has all been utilized by widening the westerly and part of the northerly slope, making these banks now five feet wider at the bottom of the slope, and three feet wider at the top, the loam being previously removed from the slopes, and replaced again after the debris had been wheeled on and well rolled and puddled. Portions of the slopes and surrounding grounds, were then ploughed and sowed with grass seed. Iron steps made by the No. Chelmsford Foundry Co. have been set at the entrance to the gate house, and a drain of 8-inch Akron pipe with four cesspool connections, has been laid from the Beacon street sewer along the foot of the northern slope a distance of 675 feet.

EXTENSIONS.

Two miles two hundred and forty-three feet of cast iron mains have been laid this year. A twelve-inch main with two expansion joints, has been laid across Merrimack river under the westerly sidewalk of central bridge, and connected with the twelve-inch mains on each side of the river, so that we have now four independent lines leading from the reservoirs to the city proper. A connection controlled by a twelve inch gate has also been made with the 24-inch force main on Sixth street, to the 12-inch main on Bridge street. So that in case of any accident to the reservoir, or in case of a large fire, the water can be pumped directly into the city mains, giving an additional supply to that furnished by the reservoir alone. Connections on both sides of the river at Hunt's falls have been made with the 30-inch main to the 24-inch reserve line, by a system of gates, so that in case of any accident in the river to either the high service or low service mains, the water can in a few moments be switched into the 24-inch reserve line.

LEAKS.

There have been two leaks in joints of the force main, six leaks in joints of the supply mains, one break in pipe on L street. Two blank heads started off, on the high service line, caused by the backing being taken away by parties building a house drain, ten service pipes have broken off, principally occasioned by the settling of sewer trenches, and one twelve-inch special broke on the corporation line on Hall street.

HYDRANTS.

Thirteen new hydrants have been set on extensions. The old style hydrant on Adams street, near Broadway, has been changed for a new flush hydrant, the old style hydrant on Mt. Vernon street near Broadway, and the one on Broadway near school street, also the new flush hydrant on Suffolk street, near Lagrange street, have been discontinued and replaced by new post hydrants. An inspection of every hydrant in the city is made twice every year by the Fire department, who report every hydrant which is not in perfect order. Fifty-nine cases were reported this year, but only twenty-six needed more than slight repairs, and none of them were out of order so but what they could have been used if necessity required.

SERVICES.

241 services have been added this year. 150 old services have been changed for either lead or larger iron, and 22 services have been discontinued and cut off at the main.

The amount of service pipe laid in 1886 is as follows :

$\frac{3}{4}$ inch wrought iron pipe.....	520 feet.
1 " " " "	449 "
$1\frac{1}{4}$ " " " "	33 "
2 " " " "	38 "
$\frac{5}{8}$ " lead pipe.....	6,449 "
$\frac{3}{4}$ " " "	789 "
1 " " "	249 "
<hr/>	
Total laid during 1886.....	8,527 "
Amount previously laid.....	267,291 "
<hr/>	
Total amount now laid.....	275,818 "

Or 52 miles 1258 feet.

Total number of services put in.....	7,448
Total cut off at main.....	341
Total reconnected.....	20
Total now in use.....	7,127

25 services have been shut off for non payment; 2 have been remitted, 13 paid, and 10 remain unpaid.

Number and Kind of Services Changed During the Year Ending Dec. 31, 1886.

SIZE OF SERVICE CHANGED FOR.		$\frac{5}{8}$ in. lead.	$\frac{3}{4}$ in. lead.	1 in. lead.	1 in. lead.	1 in. iron.	$1\frac{1}{4}$ in. iron.	$1\frac{1}{4}$ in. iron.	2 in. iron.	$1\frac{1}{2}$ in. iron.	
79	$\frac{3}{4}$ inch. iron.	2792									2792 feet
47	$\frac{3}{4}$ inch. "		2041								2041 "
10	$\frac{3}{4}$ inch. "			425							425 "
2	1 inch. "				65						65 "
7	$\frac{3}{4}$ inch. "					448					448 "
1	$\frac{3}{4}$ inch. "						71				71 "
1	1 inch. "							54			54 "
1	$\frac{3}{4}$ inch. "								39		39 "
2	1 inch. "									155	155 "
150	Totals . .	2792	2041	425	65	448	71	54	39	155	6090 feet

Schedule of Small Pipe Laid.

STREETS.						1 inch.	Total feet.
Court off Coburn Street						148	148 feet.
Stanley Avenue						108	108 "
South Hastings Street						22	22 "
Total						278	278 feet.

METERS.

There are now in use 1461, an increase over last year 40 ; meters set during the year, 60 ; meters taken out and repaired, 293 ; meters taken out and others set in their places, 43 ; Worthington meters taken out, cleaned and repaired, 80 ; Desper meters repaired at Worcester, 89 ; Desper meters repaired at Pumping Station, 80 ; meters worn out and replaced by others, 13 ; meters destroyed by freezing, 16 ; meters discontinued, 15.

Meters Running January 1, 1887.

SIZE IN INCHES.	$\frac{3}{8}$ in.	$\frac{1}{2}$ in.	1 in.	1 $\frac{1}{2}$ in.	2 in.	3 in.	4 in.	Motor Regis- ters.	Total.
Desper	505	154	65	1					725
Worthington	281	27	49	70	25	5	2		459
Crown	67	94	32		2		1		196
Duplex	13	14	10						37
Ball & Fitts	19	9	2	1					31
Fitts Rotary	7		1						8
Motor Registers . . .								5	5
Total	892	298	159	72	27	5	3	5	1461

ITEMS OF OTHER WORK DONE.

Two years ago an examination of the trusses supporting the twenty-four-inch main which crosses Concord river under East Merrimack street bridge, showed that they had deflected from a straight line and canted down stream. An examination this year showed that the deflection had increased so much that there was danger of the trusses tripping and letting the pipe into the river. The cause of this was owing to the ends of the trusses resting on loose stones, on both abutments and pier, and as the pipe was originally laid crowning, when the trusses settled the pipe crowded against the timber on the down stream side and caused the trusses to cant. The pipe had to be shored up by timbers reaching from the bottom of the river. The trusses were then brought back into place, and held by braces and rods, also by rods running diagonally from the centers to the up stream end of the abutments and pier. The ends of the trusses were then secured in masonry on a firm foundation, so that no trouble need hereafter be apprehended.

A six-inch blow-off has been laid on Front street, and the mains throughout the city have been blown out twice this year. All the service boxes, hydrants boxes, street gate boxes and gates, have been examined and put in good order. 385 unsound service boxes have been replaced by the pipe service box manufactured by Staples Bros. of this city. 11 decayed hydrant boxes have been replaced by cast iron boxes and 33 street gates were found leaking and were

repaired. A pipe drinking fountain has been set on Branch street near the Franklin school house. The stone troughs at Middlesex Village and on Bridge street in Centralville, have been removed and changed for pipe fountains, and the stone trough in Liberty square has been replaced by a large circular fountain made by the Mott Iron Works of New York.

CONCLUSION. /

In closing this report I desire to extend to the President and members of the Water Board my sincere thanks for their uniform courtesy and co-operation in the discharge of the duties of my position.

Respectfully submitted,

HORACE G. HOLDEN, Supt.

Low Service.—Water Pipes Laid in 1886.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					
		4 in.	6 in.	8 in.	12 in.	24 in.	Total.
Anderson . . .	Extended easterly . . .		183				183
Aiken Ave. . .	Southerly toward Hildreth .		144				144
Baldwin . . .	Southerly from Middlesex .		1583				1583
Bartlett . . .	Easterly from Alder . . .	335					335
Barker Ave. . .	Southerland and W. 19th .		285				285
Bridge . . .	Force main and Bridge st. line				39		39
Bridge . . .	Across Central bridge . . .				553		553
Boynton . . .	Extended easterly . . .		127				127
Chester . . .	Westford and Princeton .		352				352
Gorham . . .	Southerly toward Chelmsford line . . .		479				479
Hazeltine . . .	Frye and Powell . . .	114					114
High . . .	Southerly to Rogers . . .		1048				1048
Lawrence . . .	S'e'ly beyond Dugdale's house			363			363
Lawson . . .	Queen and School . . .	122					122
Leverett . . .	Extended Southerly . . .	98					98
Lundberg . . .	Gorham and O'Connell . . .	38	333				371
Maple . . .	Extended easterly . . .	75					75
McIntire . . .	Northerly from Marshall .	210					210
O'Gonnell . . .	Lundberg st. northerly . .	144					144
Pine . . .	Baldwin st. Ely . . .		258				258
Pleasant, Ward 2	Southerly from West st. .		351				351
Rockdale Ave.	Bowers and Fletcher st. .	408					408
Rogers Ave. . .	Rogers st. and Fort Hill Park		506				506
Rogers . . .	High and Rogers ave. . .		357				357
Second Ave. . .	Extended southwesterly .		195				195
Varnum Ave.	Extended westerly from Fay's		1472				1472
Ward . . .	Northerly from Tucker .		238				238

Low Service.—Water Pipes Laid in 1886.—Concluded.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.					Total.
		4 in.	6 in.	8 in.	12 in.	24 in.	
Wilder . . .	Extended n'ly toward Pawt'kt		44				44
W. Nineteenth,	Southerly to Barker ave. .		53				53
Front . . .	Blow off		24				24
Fire Service .	Thorndike Manufacturing Co.		54				54
Reserve Line .	North side Merrimack river .					14	14
Reserve Line .	South side Merrimack river .					16	16
	Hydrants		188				188
Laid in 1886		1544	8255	363	592	30	10,803
Low service laid previous to 1886							403,261
Total low service to Jan. 1, 1887							414,064
High service pipes laid to Jan. 1, 1887							15,171
Total high and low service to Jan. 1, 1887							429,235
Total in miles to Jan. 1, 1887							81.30

Low Service.—List of Hydrants Set During the Year 1886.

STREETS.	LOCATION.
Aiken Ave. .	Northwesterly side, opposite West Nineteenth street.
Anderson . .	Southerly side, 429½ feet from Gorham street.
Baldwin . .	Easterly side, 1550 feet from Middlesex street.
Bartlett . . .	Northerly side, 15 feet easterly from Alder street.
Bowers . .	Northerly side, opposite Rockdale avenue.
Gorham . . .	Westerly side, 121 feet from town bound.
Lawrence . .	Easterly side, about 196 feet southerly from Dugdale's house.
Lagrange . .	Northerly side, 3 feet west from Suffolk street.
Mt. Vernon .	Westerly side, 46 feet north from Broadway.
Pine	Northerly side, 242 feet from Baldwin street.
Rogers . . .	Northerly side, opposite Rogers avenue.
School . . .	Westerly side, 7 feet south from Broadway.
So. Loring .	Westerly side, 325 feet from Liberty street.
*Stackpole, w'ly end	Easterly side, street 152.5 feet from East Merrimack street.
Varnum Ave.	Northerly side, nearly opposite Harlow Hull's house.
Varnum Ave.	Northerly side, nearly opposite Thomas Varnum's house.

* Flush hydrant.

DISCONTINUED.

Flush hydrant on westerly side Mt. Vernon street, about 16 feet north of Broadway.

Hydrant on easterly side Suffolk street, opposite Lagrange.

Flush Hydrant on Broadway at northeast corner of School street.

Low Service.—List of Stop Gates Set During the Year 1886.

STREETS.	LOCATION.	4 in.	6 in.	12 in.
Baldwin	19 ft. w'ly from e'ly line Baldwin St., 16 ft. n'ly from s'ly line Middlesex St.		1	
Bridge	22.3 ft. e'ly from w'ly line Bridge St., 18 ft. s'ly from n'ly line W. Sixth St.			1
Chester	16.3 ft. w'ly from e'ly line Chester St., 4.3 ft. n'ly from n'ly line Westford St.		1	
High	19 ft. e'ly from w'ly line High St., 2 ft. n'ly from n'ly line Rogers St.		1	
Lundberg	About 13 ft. n'ly from s'ly line Lundberg St., 1.8 feet e'ly from e'ly line Gorham St.		1	
Pleasant (Ward 2) .	32.5 ft. w'ly from e'ly line Pleasant St., 27 ft. s'ly from s'ly line W. Sixth St.		1	
Rockdale Ave. . .	5 ft. east of west line Rockdale Ave., on s'ly line Bowers St.	1		
Thorndike st. (Thorndike M'fg Co., fire service.)	5.7 ft. east of w'ly line Thorndike St., 2 ft. n'ly of w'ly wall, new mill.		1	
Front street, blow off.	14 ft. east of east line Front St., about 16 ft. south of north line Front St.		1	

Schedule of Main Pipe and Special Castings.

DIAMETER IN INCHES.	4	6	8	10	12	16	20	24	30
Lengths	68	21	13	25	75	5	17	8	5
Sleeves	6	1	10	1	15	10	4	9	6
Caps	2	6	23	8	16	3	1	1	
Curves	16	6	12	2	9	4	10	3	

DIAMETER IN INCHES.	4x4	6x4	6x6	8x6	8x8	10x6	10x8	12x6	12x8	12x10	12x12	16x6	16x8	16x12	16x16
3-Ways	4	4	6			2	12	7					1		
4-Ways	2		2	4	5		6	1		1				1	1
Reducers		9		5			2	4	5	4				1	

Property in Water Board and Superintendent's Office.

17 chairs, 4 high stools, letter press, 7 desks with drawers, 3 standing desks, 3 office tables, 1 book case in vault, 1 black walnut book case, 1 book rack, 1 bill cabinet, 10 ink stands, 1 clock, 1 glass mug, 3 waste baskets, 8 spittoons, 4 wrenches, 1 pick, 1 map of distributing pipes, 1 large rubber mat, 3 grass mats, 1 water gauge, 1 screw driver, 1 safe, 1 key rack, 1 atlas of Lowell, 1 instrument for testing capacity of engines, 1 apparatus for marking gates, 1 hat rack, 1 umbrella rack, 1 water cooler, 1 settee.

Property at Pipe Yard January 1, 1887.

Meters.—Worthington Meter.—15⁄8 inch, Desper Meter.—35⁄8 inch, 1 inch, Crown Meter.—45⁄8 inch, 13⁄4 inch. *Second Hand Meter's.*—Worthington 16, Ball & Fitts 6, Fitts Rotary 5, Duplex 3, Worthington Meter bottoms 3, tops 10, indicator 31, covers 16, valves and valve seats 12, spindles 15, out and inlets for Desper Meter 35, 6 head connections for taking out Worthington Meters, 3 set packing patterns, 1 roll paper packing, 1 lb. sealing wax, 1⁄2 box crayons, 1⁄2 box candles, 10 lbs. leather, 2 oil pans, 1 pair cut nippers, 2 brass lamps, 1 pair pliers, 1 leather tool bag, 2 match safes, 200 brass unions for 5⁄8 in. meters, 25 brass nipples, and unions for 1 inch meters, 12 brass nipples and unions for 1 1⁄2 inch meters, 4 brass nipples and unions for 2 inch meters, 1 5 gallon can, 2 1⁄2 gallon, 2 1⁄4 gallon, 1 seive, 1 pail, 1 tank, for testing meters, 1 platform scale, 1 counter scale, 2 chairs, 1 desk, 1 portable closet, 1 clock, 6 pair pipe tongs, 2 stilson wrenches, 4 monkey wrenches, 5 screw drivers, 1 mallet, 2 claw hammers, 1 hatchet, 1 foot lathe, 1 lathe dog, 1 broom, 1 coal stove, 1 coal hod, 2 bit stocks, 2 bits, 7 hand saws, 100 lbs. old brass, 2 solder irons, 1 2 inch auger, 1 set numbers, 1 fore plane, 1 bench block, 1 universal chuck, 2 small hammers. *Stop Gates.*—1 4 inch, 1 8 inch, 1 12 inch, wrought iron pipe, 150 ft. 1 inch, 1 pipe reel, 50 ft. 5⁄8 inch lead pipe, 1 reel 3⁄4 inch lead pipe, 1 reel 1 inch pipe, 7 3⁄4 inch tees, 21 1 1⁄2 inch, 20 2 inch. *Crosses.*—13 1x3⁄4 inch, 8 1 inch, 8 3⁄4 inch, 16 2x1 inch. *Couplings.*—150 assorted. *Elbows.*—35 1x1⁄2 inch, 5 3⁄4 inch. *Bushings.*—50 assorted, *Reducing Couplings.*—30. *Plugs.*—35 1 inch, 40 1 1⁄2 inch. *Unions.*—43 1 1⁄2 inch

20 2 inch. *Solder Nippers*.—25 $\frac{3}{4}$ inch, 20 $1\frac{1}{2}$ inch. *Solder Unions*.—30 1 inch, 18 $\frac{3}{4}$ inch, 40 $\frac{5}{8}$ inch. *Corporation Cocks*.—30 1 inch, 40 $\frac{5}{8}$ inch. *Stop and Waste Cocks*.—3 $1\frac{1}{2}$ inch, 12 1 inch, 70 $\frac{5}{8}$ inch. *Cellar Cocks*.—15 1 inch, 8 $\frac{5}{8}$ inch. *Sidewalk Cocks*.—5 $\frac{5}{8}$ inch. *Brass Tees*.—25 $\frac{3}{4}$ inch, plugs, 15 $\frac{3}{4}$ inch, 6 iron hydrant boxes, 2 stop-gate boxes, 1 wood hydrant box, 100 iron sidewalk boxes, 35 joints earthen pipe for sidewalk boxes, 2 saw horse, 1 buck saw, 1 machine for testing main pipe, 2 pipe benches, 3 tool boxes, 3 derricks, 2 fall ropes, 2 set of blocks, 6 draught chains, 5 wheelbarrows, 2 tongs for cleaning sidewalk boxes, 5 hydrant frames, 15 hydrant covers, 6 gate box frames, 6 gate covers, 3 set castings for drinking fountains, 20 picks, 25 pick handles, 8 square shovels, 20 shovels, round point, 16 scrub brooms, 6 hand brushes, 17 pair rubber boots, 13 lanterns, 30 ft. rubber hose, 1 hose reel, 2 brass goose necks, 6 calking sets, 4 nail hammers, 150 sidewalk caps, 200 feet canvass hose, 30 iron lug straps, 250 lbs. assorted bolts, 12 assorted files, 12 assorted gravel screens, 30 lbs. cotton waste, 2 trowels, 10 lbs. iron washers, 30 lbs. assorted nuts, 3 hand hatchets, 1 ax, 5 sling ropes, 1 dualin pot, 1 10 gallon can, 9 striking hammers, 5 hand hammers, 5 hand hammer handles, 1 16 foot straight edge, 385 pig lead, 3 set old blocks. 2 lead pots, 1 furnace for melting lead, 1 zinc pump, 2 copper force pumps, 1 keg 10d nails, 1 keg 30d nails, 40 assorted wrenches, 14 rammers, 3 paving mauls, $\frac{1}{4}$ barrel cement, $\frac{1}{4}$ barrel white clay, 2 snow shovels, 1 blacksmith shop, 1 work shop, 1 carriage house, 1 stable, 1 store shed, 2 spirit levels, 1200 feet lumber for gate and hydrant boxes, 2 patterns for making gate and hydrant boxes, 1 set blacksmith tools, 400 lbs. steel in drills, 4 scrapers for blasting purposes, 4 lbs. pipe wedges, 3 yarning irons, 2 lead ladles, 8 crow bars, 3 horses, 3 express wagons, 1 light wagon, 3 horse blankets, 2 pungs, 1 sleigh, 2 horse brushes, 4 harnesses, 2 hay forks, 2 manure forks, 1 wagon jack, 2 wagon wrenches, 2 canvass covers for horses, $2\frac{1}{2}$ tons hay, 7 post hydrants, 6 flush hydaants, 15 second hand old style hydrants, 12 pair pipe tongs, 2 stilson wrenches, 4 monkey wrenches, 3 tapping machines, 20 dippers for drinking fountains, 125 feet block tin tubing, 1 30 foot extension ladder, 2 24 foot ladders, 2 ratchet cutters, 3 pipe cutters, 3 pipe vices, 20 dies, 2 ratchet die plates, 1 $\frac{3}{4}$ inch tap, 1 1 inch, and 1 $1\frac{1}{2}$ inch, 4 oil cans, 100 feet block tin wire, 1 solder pot, 2 solder moulds, 1 charcoal furnace, 3 bbl. charcoal, 1 naptha furnace, 5 soldering irons, 15 gate spindles, 2 disks, 11 hydrant spindles, 8 hydrant valves, 12 hose, 30 hydrant packings for top, 30 hydrant packings for bottom, 34 5 inch packings for top, 34 hydrant packings for bottom, 10 packings for 4 inch gates, 1 packing for 16 inch gate, 1 map of distributing main pipe, 1 map of showing stop gates, 1 map of Lowell, 1 map of United States, 1 Edison patent pump, 9 feet 4 inch rubber hose, 1 ton stove coal, 5 lbs. shims and wedges, 2 portable closets, 1 $\frac{1}{4}$ gross lamp wicks, 1 coal hod, 2 chairs, 1 desk.

Property at Pumping Station.

1 vise, 1 work bench, 1 portable forge, 8 sets of brasses for engines, 2 sets differential blocks, 1 piece 2 inch rope, 1 set fire irons, 1 brass hydrant, 2 axes, 11 wrenches, 3 hand saws, 2 jack screws, 12 cold chisels, 2 ratchet drills, 1 socket drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 desk, 2 indicators, 1 oil cupboard, 2 oil dishes, 1 platform scale, 4 crow bars, 64 feet $\frac{5}{8}$ inch chain, 16 eye bolts, 1 truck, 1 key wrench for air pump, 2 iron wheelbarrows, 1 buck saw, 2 gas lamps, 1 high grade thermometer, 4 brass bolts, $\frac{1}{2}$ inch diameter, for pump valves, 5 spare pump valves, 5 sets spare weights for valves, 11 wrenches for Morris engine, 11 finished wrenches for Worthington engine, 3 sledge hammers, 10 drills a-sorted sizes, 2 bit stocks, 5 bits, 1 25 foot ladder, 1 20 foot, 1 18 foot ladder, 1 pair steps, 1 hoe, 2 rakes, 1 small die plate, 1 fore plane, 5 monkey wrenches, 100 feet 2 inch rope, 4 chisel bars, 6 small taps, 4 finished socket wrenches for Worthington engine, 3 14 quart iron pails, 4 hand hammers, 2 grind stones, 1 anvil, 7 pairs gas tongs, 1 wrench, 11 finished wrenches, 2 clocks, 1 set Walworth's solid dies from $\frac{1}{4}$ inch to 2 inch right and left, 2 die stocks,

and bushings, 2 sets, 2 sheave blocks, 3 pieces $\frac{5}{8}$ inch chain, 1 24 inch elbow for Worthington force main, 1 $2\frac{1}{4}$ ratchet wrench for 30 inch gate river crossing, 1 scythe, 1 snath, 7 chairs, 1 desk, 1 table, 2 engine lathes, 1 speed lathe, 1 up-right drill, 31 turning tools, 1 12 inch chuck, 1 6 inch chuck, 1 No. 3 drill chuck, 1 No. 2 drill chuck 3 reamers Desper meters, 3 small reamers, 2 small taps, 16 twist drills, 4 lanterns.

Property at Reservoir.

1 iron tooth rake, 1 hay fork, 3 shovels, 2 long handle shovels, 1 ax, 1 piece 1 inch rope, 1 scythe, snath, 1 grass hook, 10 wheelbarrows, 3 thermometers, 1 stop gate wrench, 1 sidewalk wrench, 1 coal stove, 2 lanterns, 1 ice chisel, 1 nail hammer, 1 saw, 1 carpenter's square, 2 hoes, 1 piece rubber hose, 2 chairs, 1 sectional ladder, 1 dwelling house, 1 stable.

Tools and Property at Filter Inlet.

2 iron tooth rakes, 11 shovels, 1 rammer, 1 ax, 2 ice chisels, 1 stop gate wrench, 1 nail hammer, 1 pick, 2 brooms, 1 wheelbarrow, 1 boat, 1 set of oars.

SUMMARY OF STATISTICS.

REPORT OF 1886.

IN ACCORDANCE OF SUGGESTIONS ADOPTED BY THE NEW ENGLAND WATER
WORKS ASSOCIATION.

Lowell Water Works, Lowell, Mass.

Population by census of 1885, 64,051.

Date of construction, 1870 to 1872, inclusive. Owned by the City of Lowell.

The source of supply is from Merrimack River.

The mode of supply is by pumping and consists of one Morris pump, and one Worthington pump, of 5,000,000 gallons daily capacity each.

The kind of coal used is Maryland Co.'s Cumberland.

Cost of coal is \$4.65 per ton of 2240 lbs.

	MORRIS.	WORTHINGTON.
Coal consumed for the year in pounds	2,214,550	508,000
Total pumping in gallons . . .	1,222,150,080	219,472,560
Average head including friction in feet	164.08	165.68
No. of gallons pumped per lbs. of coal	552	432
Duty on total coal consumed, no deduction for anything . . .	75,465,444	59,654,078
Cost of pumping figured on pumping station expenses, viz: . .	\$9,618.52	
Per million gallons into reservoir	6.52	\$7.53
Per million gallons one foot high	03. $\frac{97}{100}$	04. $\frac{55}{100}$

Financial.

RECEIPTS.	EXPENDITURES.
Water rates \$165,279.68	Construction \$ 15,175.55
Services, meters, etc. 3,477.75	Maintenance 35,253.47
Appropriation 3,000.00	Meters purchased 1,379.50
	Interest 115,535.00
	Balance on hand 4,413.91
Total \$171,757.43	\$171,757.43

CONSUMPTION.

Estimated population to date.....	67,000
Estimated population supplied.....	65,000
Total number of gallons consumed for year.....	1,441,622,640
Total number of gallons metered.....	326,999,950
Average daily consumption in gallons.....	3,949,651
Gallons per day to each consumer.....	60
Gallons per day to each service.....	554

DISTRIBUTION.

Kind of pipe used.....	Cast iron.
Size from 4 inches to 30 inches diameter.....	
Extended.....	10,813 feet.
Total now in use.....	429,245 feet.
Number of leaks for the year.....	12
Hydrants added.....	13
Hydrants now in use.....	773
Stop gates added.....	7
Stop gates now in use.....	538
Blow off gates.....	17
Fire service gates.....	23
Range of pressure at center for day and night.....	50 lbs. to 60 lbs.

SERVICES.

Kind of pipe used.....	Lead and wroughtiron
Size.....	$\frac{5}{8}$ inches to 3 inches.
Extended.....	8,527 feet.
Total now in use.....	52 miles 1,258 feet.
Service taps added.....	241
Service taps now in use.....	7,127
Meters added.....	40
Meters now in use.....	1,461

ANNUAL REPORT

OF THE

POLICE DEPARTMENT

OF THE

CITY OF LOWELL,

FOR THE YEAR 1886.



LOWELL, MASS.:
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

IN BOARD OF ALDERMEN, Jan. 3, 1887.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

*To the Honorable Mayor and Board of Aldermen of
the City of Lowell:*

Gentlemen: I have the honor of herewith presenting for your consideration my second annual report of the doings of and the present condition of the Police Department for the year commencing December 1, 1885, and ending November 30, 1886.

The force at the present time consists of sixty-two regular officers, rank and file, and nine supernumeraries, making a total of seventy-one, including the janitor of the court room. Three of the above supernumeraries were made regular officers November 16, to take effect December 1, the present year, leaving six supernumeraries to fill vacancies and do such other duty as they may be called upon to do. In my judgment six supernumerary officers are enough at any one time to do the work required. During the past year nine supernumeraries reported regularly for duty, and their average pay has been about one-half the pay the regular officers receive. I am informed that some of the supernumeraries who have families to support, have not paid their living expenses with what they have received from the depart-

ment by some hundreds of dollars. Therefore, I recommend that no more supernumeraries be appointed until the present number be made less, either by promotion or otherwise.

Three new day beats are to be added December 1, as follows: One beginning at corner of Market and Central, and including those streets and Prescott, Bridge, Paige, Shattuck streets and vicinity, now patrolled by the officer on postoffice square beat. By this arrangement the officer on duty at the square and post-office will be able to give that locality his constant attention, which the increasing business of that vicinity demands. The second new beat is located in Ward Four, west of Nichols street, and south of Lowell & Nashua Railroad to the city limits. The third new beat is located in Ayers city, including all streets south of Chelmsford street and west of Boston & Lowell Railroad, extending to city line. The increase of population and the frequent calls from the above named localities have convinced me that more officers were needed in the above named places. The force is divided as follows:

HEADQUARTERS.

At headquarters during the day the following are on duty: Chief, Deputy Chief, four Inspectors of Police, (two of which are detailed for detective duty and two for the enforcement of the liquor law), two Warrant Officers, and one Keeper. The above officers report for duty at 7.30 a. m., and remain on duty until 7.30 p. m.

DAY PATROL.

One Sergeant and twelve Patrolmen report for duty at 7.45 a. m., at which time the roll is called by the Sergeant, and at 8 o'clock they go to their respective beats and remain on duty till 7 p. m., one hour being allowed each man for dinner, being so arranged in regard to time as to keep the city well protected, and enable one officer to look after his own and the adjoining beat, or in other words one officer cares for two beats during the dinner hours.

THE NIGHT PATROL.

Consists of the Junior Deputy Chief, two Sergeants, one Keeper, and thirty-one patrolmen.

The Junior Deputy Chief, acting as Captain, and thirty-one Patrolmen report for duty at 6.45 p. m., when the roll is called by the Captain. At 7 p. m., a line is formed by the Sergeant, under the direction of the Captain, and the men are marched out in double file, each repairing to his beat and remaining on duty until 4 a. m., each officer being allowed forty minutes in the station for lunch.

One Sergeant and four Patrolmen report for duty at 11 p. m., and remain on duty until 8 a. m., when they are relieved by the day patrol.

SUPERNUMERARIES.

Report daily at roll call and are detailed to fill vacancies caused by sickness or leave of absence of the regular officers.

ROLL OF DEPARTMENT.

Name.		Birthplace.	Entered Service.
JACOB G. FAVOR,	Chief of Police,	New Hampton, N. H.	1859
FRANK WOOD,	Deputy Chief Police.	Halifax, N. S.,	1883
CHAS HOWARD,	Deputy Chief Police,	Lowell, Mass.,	1871
DANIEL W. HAYES,	Inspector,	Bradford, Vt.,	1874
CHAS. LAFLAMME,	"	Canada,	1881
FRANK GOODWIN,	"	Newport, N. H.	1872
ALEX. W. HARPER,	"	Lowell, Mass.,	1880
JAMES E. WEBSTER,	Sergeant,	Conway, N. H.,	1865
CHARLES GREGG,	"	Franklin, N. H.,	1880
GEORGE R. DAVIS	"	East Corinth, Me.,	1881
P. T. CORCORAN,	Warrant Officer,	Ireland,	1880
WILLIAM G. BUMPS,	"	Thorndike, Me.,	1881
LEVI BROWN,	Keeper,	Stanstead, Canada.	1852
JAMES MCQUADE,	"	Lowell, Mass.,	1880

DAY PATROL.

BEALS, CYRUS M.	Greene, Me.,	1882
ELLIOTT, ALBERT F.	Haverhill, N. H.,	1882
FARRINGTON, HENRY	Stow, Me.,	1871
GARDNER, WILLIS L.	Whitefield, Vt.,	1880
GRINNELL, ENOCH N.	New Bedford, Mass.,	1881
KEW, WILLIAM R.	Whitefield, Vt.,	1880
LIBBY, ALBERT E.	Hartford, Me.,	1864
LANE, DANIEL W.	Harwick, Mass.,	1879
SANBORN, THOMAS J.	Sanbornton, N. H.,	1858
TILTON, JOHN W.	Lowell, Mass.,	1871
WALSH, JOHN A.	Lowell, Mass.,	1883
McLAUGHLIN, JAMES	Ireland,	1875

NIGHT PATROL.

Name.	Birthplace.	Entered Service.
ALLEN, THOMAS E.	Lowell, Mass.,	1881
BLOOD, JOSIAH	Whitefield, N. H.,	1882
BOYLE, JAMES	Lowell, Mass.,	1884
COLLINS, CORNELIUS E.	Lowell, Mass.,	1879
CHENEY, EUGENE B.*	Nashua, N. H.,	1881
CAWLEY, PETER	Rutland, Vt.,	1884
CREAHIN, JOHN	Ireland,	1884
DUNLAVY, JAMES	Newburyport, Mass.,	1880
DUNLAVY, GEORGE F.	Lowell, Mass.,	1880
DURROUGH, JOHN	Scotland,	1880
FITZPATRICK, PATRICK	Ireland,	1881
FLAHERTY, JOHN J.	Lowell, Mass.,	1883
FURLONG, JOHN C.	Whitefield, Me.,	1879
FOX, EDWARD	Ireland,	1884
GOODHUE, DAVID H.	Enfield, N. H.,	1855
GRADY, WILLIAM H.	Lowell, Mass.,	1881
GALLIVAN, DENNIS F.	Lowell, Mass.,	1881
HICKSON, JOHN	Ireland,	1880
HOLMAN, ALFRED W.	York, Me.,	1881
HOLLAND, JAMES E.	Philadelphia, Pa.,	1881
HOWARD, CORNELIUS	Ireland,	1884
INGALLS, THOMAS	Salem, Mass.,	1859
JONES, WILLIAM B.	St. Lawrence Co. N. Y.,	1879
M McNABB, JAMES	Lowell, Mass.,	1879
MOFFATT, WILLIAM B.	Ireland,	1881
MARSHALL, GEORGE W.	Lowell, Mass.,	1884
O'DONNELL, PETER F.	Lowell, Mass.,	1881
O'CONNELL, JOHN	Ireland,	1882
PAGE, ALONZO J.	Livermore, Me.,	1869
PIKE, HENRY C.	Sebago, Me.,	1879
RING, THOMAS F.	Charlestown, Mass.,	1879
RILEY, JAMES	Ireland,	1881

* Resigned November 30, 1886.

REPORT OF POLICE DEPARTMENT.

Name.	Birthplace.	Entered Service.
STREETER, HERBERT P.	Lowell, Mass.,	1881
TILTON, HERMAN N.	Lowell, Mass.,	1873
VARNUM, JOSEPH B.	Dracut, Mass.,	1881
LIBBY, ISAAC L.	Court Officer and Janitor.	

SUPERNUMERARIES.

BREAULT, ELOI N.	Canada,	1884
DUNFEY, JOHN H.	Cambridge, Mass.,	1884
DOHERTY, JOHN J.	Wheeling, Va.,	1884
DENNETT, JOHN S. *	Hopkington, N. H.,	1884
MCCARRON, WILLIAM	Ireland,	1884
MCDONALD, JOHN *	Ireland,	1884
McKAY, JOHN H.	Lowell, Mass.,	1884
McINTEE, CORMACK	Ireland,	1884
PROVENCHER, NAPOLEON *	Milbury, Mass.,	1884

The following statistics will show in detail the work of the department from Dec. 1, 1885, to November 30, 1886:

Whole number admitted for lodging.....	3313
Males.....	3252
Females.....	61
Foreigners.....	1921
Americans.....	1392
Minors.....	250
Non-residents.....	3250
Colored.....	15
Whole number Arrested.....	3393
Males.....	2725
Females.....	668
Foreigners.....	1936

* John McDonald, John S. Dennett and Napoleon Provencher were on November 16, 1886, appointed to the regular force, their appointment to take effect December 1, 1886.

Americans.....	1367
Minors.....	432
Non-residents.....	600
Colored.....	2

CAUSES OF ARREST.

Mutual Assault.....	2
Common Drunkard.....	63
Drunkenness, second offence.....	186
Drunkenness, third offence.....	126
Drunkenness.....	1885
Assault and Battery.....	211
Breaking and entering.....	17
Disturbing the Peace.....	23
Larceny.....	163
Vagrancy.....	20
Breaking Glass.....	4
Unlawfully Taking and Driving a Horse.....	4
Adultery.....	23
Fornication.....	21
Violation City Ordinance.....	1
Obtaining Goods by False Pretences.....	4
Malicious Mischief.....	11
Stubborn Children.....	23
Embezzlement.....	10
Forgery.....	6
False Answer to Stable-Keeper.....	3
Doing Business on Lord's Day.....	6
Unlawfully Keeping Liquor.....	9
Keeping Liquor Nuisance.....	9
Unlawful Sale of Liquor.....	11
Capias.....	6
Receiving Stolen Property.....	2
Railer and Brawler.....	1
Polygamy.....	1

Deserter.....	1
Fugitive from Justice.....	1
Keeping Unlicensed Dog.....	4
Trespass.....	5
Nightwalker.....	4
Unlawful Sale of Liquor to a Minor.....	2
Safe Keeping.....	67
Suspicious Person.....	65
Idle and Vicious.....	1
Discharging Firearms in City.....	5
Witness.....	1
Insane.....	7
Violation of Swill Ordinance.....	5
Unlawfully Bathing in City.....	1
Truancy.....	37
Wandering about Street.....	20
Felonious Assault.....	6
Defrauding Innholder.....	1
Concealing Mortgaged Property.....	2
Using Threatening Language.....	25
Bastardy.....	12
Evading Car Fare.....	7
Selling adulterated Food.....	8
Obstructing Street.....	29
Surrendered by bail.....	3
Lewd and Lascivious.....	5
Neglecting Family.....	23
Illegally Moving Baggage.....	9
Violation Screen Law.....	3
Escaped Prisoner.....	22
Cruelty to a Horse.....	1
Violation Milk Law.....	3
Keeping Diseased Meat.....	1
Fraudulent use U. S. Mail.....	1
Neglected Children.....	5

Loitering about R. R. Station.....	1
Attempt to break and enter.....	1
Illegal Voting.....	1
Murder.....	1
Contempt of Court.....	1
Setting Fire Woodlands.....	3
Whole number of Prosecutions before the Police Court.....	2718

FOR THE FOLLOWING OFFENCES.

Common Drunkard.....	61
Drunkenness, second offence.....	192
Drunkenness, third offence.....	120
Drunkenness.....	1517
Assault and Battery.....	205
Breaking and Entering.....	16
Disturbing the Peace.....	22
Larceny.....	143
Vagrancy.....	18
Breaking Glass	4
Unlawfully Taking and Driving a Horse.....	4
Adultery.....	23
Fornication.....	21
Common Nightwalker.....	4
Obtaining Goods by False Pretences.....	4
Malicious Mischief.....	11
Disobedient Children.....	21
Embezzlement	10
Forgery	4
Doing Business on Lord's Day.....	8
Unlawfully Keeping Liquor.....	9
Keeping Liquor Nuisance.....	9
Unlawful Sale of Liquor.....	11
Keeping Unlicensed Dog.....	4
Illegal Voting.....	2
Violation Milk Law.....	3

Keeping Diseased Meat.....	1
Neglected Children.....	5
Escaped Prisoner.....	6
Unlawful Sale of Liquor to a Minor.....	2
Setting Fire to Woodlands.....	3
Idle and Vicious.....	1
Witness.....	1
Violation of Vault Ordinance.....	1
Truancy.....	26
Concealing Mortgaged Property.....	2
Using Threatening Language.....	25
Bastardy.....	12
Evading Car Fare.....	5
Selling Adulterated Food.....	12
Obstructing Street.....	27
Lewd and Lascivious.....	5
Neglecting Family.....	23
Violating Screen Law.....	3
Wandering about Streets.....	19
Cruelty to a Horse.....	1
Illegally Removing Baggage.....	9
Murder.....	1
Felonious Assault.....	6
Trespass.....	5
False Answer to Stable-Keeper.....	3
Violation City Ordinance.....	5
Discharging Firearms in City.....	3
Whole number found Not Guilty, and discharged by Court.....	51

FOR THE FOLLOWING OFFENCES.

Discharging Firearms in City.....	1
Threatening.....	6
Larceny.....	10
Adultery.....	1

Obstructing Street.....	I
Malicious Mischief.....	I
Unlawful Sale of Liquor.....	I
Non-support.....	2
Illegal Voting.....	I
Selling Adulterated Food.....	2
Assault and Battery.....	25
Whole number City Ordinance Cases.....	83

FOR THE FOLLOWING OFFENCES.

Bathing in City.....	I
Obstructing Street.....	26
Wandering about Streets.....	19
Truancy.....	26
Violation Swill Ordinance.....	5
Discharging Firearms in City.....	2
Fast Driving.....	2
Violation Lord's Day.....	2
Amount of money taken from, and returned to, persons Committed.....	\$4,269.74

ORDINANCE CASES REPORTED.

Defective Street and Sidewalk.....	240
Defective Lamps and Burners.....	1932
Defective Gas Pipes.....	3
Defective Cess-pools.....	4
Defective Hydrants.....	I
Obstructions removed from Street and Sidewalk....	114
Assisted home drunk.....	321
Disturbances quelled without arrest.....	350
Drains, Vaults, and Nuisances reported....	8
Lost Children returned to parents.....	63
Stray Teams put up at stable.....	57
Store Doors found Open, and secured.....	257

FINANCIAL STATEMENT.

The following is a statement of the receipts and expenditures of the Department:—

Balance on hand Jan. 1, 1885.....	\$ 4,185 98	
Appropriated in 1885.....	52,000 00	
Receipts in 1885.....	11,514 47	
		<u>\$67,700 45</u>
Total Expenditures.....	\$67,015 41	
Balance on hand, Jan. 1, 1886.....	685 04	
		<u>\$67,700 45</u>
Total expenditure above receipts.		<u>\$55,500 94</u>

The Warrant Officers earned for the use of the city, on Warrants and Mittimus as follows:—

Teter T. Corcoran.....	\$4,404 55	
William G. Bumps.....	4,027 22	
		<u>\$8,431 77</u>

LIQUOR PROSECUTION.

The following will show the work of the officers detailed for the enforcement of the liquor law:

Prosecutions in various forms.....	33	
Visits to licensed places.....	2134	
Seizures made.....	3	
Gallons of liquor seized.....	65	
Licenses forfeited.....	1	
Amount of fines imposed.....	\$2620 00	
Amount of costs.....	358 77	
Witness fees earned.....	80 40	
		<u>\$3,059 17</u>

PROBATION OFFICER.

Thomas R. Garity, who has served in that capacity for the past three years, still continues to act as Probation officer. His management of cases turned over to him by the court on probation, has in many cases been productive of some good, and at all times satisfactory to the court and prosecuting officer.

CONCLUSION.

I desire to thank Deputy Chief Wood and Howard, Sergeants, Inspectors, and the force generally for their cheerful assistance and the good work done in the department during the past year. Also to his honor Mayor Abbott, and Alderman Crowley, Stanley and Butterworth, Committee on Police, for the courteous treatment I have received at their hands. My official relations with them have been very pleasant and agreeable to me during the year.

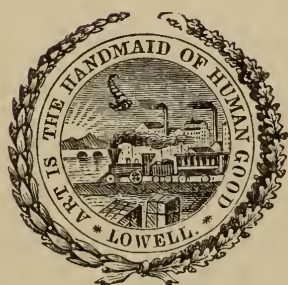
I also desire to extend my thanks to Hon. Samuel P. Hadley, Judge of the Police Court, and James F. Savage, clerk, for valuable advice in cases pending before the court.

Respectfully Submitted,

J. G. FAVOR,

Chief of Police.

ANNUAL REPORT
OF THE
CITY SOLICITOR
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.



LOWELL, MASS. :
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 5, 1887.

Read and ordered on file.

DAVID W. O'BRIEN,

City Clerk.

IN COMMON COUNCIL, April 5, 1887.

Received and ordered on file in concurrence.

WILLIAM J. COUGHLIN,

Clerk.

REPORT.

OFFICE OF CITY SOLICITOR,

LOWELL, February 28, 1887.

To the City Council:

Gentlemen,—The following is a report of the business of this office, so far as relates to suits and proceedings at law, in which the City was a party, pending during the past year. The following actions were pending March 1, 1886:

JOHN M. PEVEY v. CITY OF LOWELL.

MIDDLESEX COMPANY v. CITY OF LOWELL.

(Relating to the Andover, Church and Pond Street Sewers.)

MIDDLESEX COMPANY v. CITY OF LOWELL.

(Relating to the Intercepting Sewer.)

MIDDLESEX COMPANY v. CITY OF LOWELL.

(Relating to the boundary line of land of the City bordering upon the mill pond of the plaintiff in Concord river.)

*MARIA T. STEVENS v. CITY OF LOWELL.

*JULIA A. BUTTERFIELD v. CITY OF LOWELL.

SOLOMON BACHMAN v. CITY OF LOWELL.

*HERBERT E. WEBSTER, Adm'r. v. CITY OF LOWELL.

*SHAW STOCKING COMPANY v. CITY OF LOWELL.

- *MARTHA W. SMITH v. CITY OF LOWELL.
ANN ASHWORTH v. CITY OF LOWELL.
- *JAMES GUILLINE, Adm'r, v. CITY OF LOWELL.
CYRUS JOHNSON v. CITY OF LOWELL.
- *DANIEL GAGE v. CITY OF LOWELL.
- *CLARINDA OTIS v. CITY OF LOWELL.
ROSA FOLEY v. CITY OF LOWELL.
- *J. Q. A. HUBBARD v. CITY OF LOWELL.
- *ANN CARR v. CITY OF LOWELL.
- *JULIUS T. ADAMS v. CITY OF LOWELL.
- *LOWELL BLEACHERY v. CITY OF LOWELL.
HENRY E. PARKER v. CITY OF LOWELL.
- *LAURA E. BLAKE v. CITY OF LOWELL.
- *NATHANIEL ALLEN v. CITY OF LOWELL.
MARIA FLYNN v. CITY OF LOWELL.
ANN DONAHOE v. CITY OF LOWELL.
O. A. SIMPSON v. CITY OF LOWELL.
HENRY A. HILDRETH v. CITY OF LOWELL.
BERNARD RILEY v. CITY OF LOWELL.
- *ELIZA COWLEY v. CITY OF LOWELL.
MARY A. MCINTIRE v. CITY OF LOWELL.
- *HYDE PARK v. CITY OF LOWELL.
- *HANNAH REAGAN v. CITY OF LOWELL.
- *THOMAS F. HART, Pro Ami, v. CITY OF LOWELL.
- *MARY G. ADAMS v. CITY OF LOWELL.
J. M. G. PARKER v. CITY OF LOWELL.

Of the foregoing list of cases those marked with asterisk have been finally terminated as follows, viz :

- MARIA T. STEVENS v. CITY OF LOWELL.
- JULIA A. BUTTERFIELD v. CITY OF LOWELL.

Petitions for a jury to assess damages alleged to have been caused by the widening of Chelmsford Street. The City Coun-

cil of 1884, passed a resolution awarding to each petitioner, compensation at the rate of twenty-five cents per square foot for the land taken in the widening of the street. The awards made by the Council were accepted by the petitioners, the damages paid, and the cases thereby ended.

HERBERT E. WEBSTER, adm'r, v. CITY OF LOWELL.

Petition for a jury to assess damages alleged to have been occasioned to the estate of the petitioner by the discontinuance of a portion of Hanover Street. The defence of this action was assumed by the Tremont and Suffolk Mills. The case went to the Supreme Court in the year 1884, upon an appeal by the petitioner, from a ruling of the Superior Court; and it came back for trial and was tried at the September sitting of the Supreme Court in the year 1885. The jury assessed damages for the petitioner, and the case went to the Supreme Court on exceptions, taken by the defendant, which have since been overruled.

THE SHAW STOCKING COMPANY v. CITY OF LOWELL.

Petition for a jury to assess damages occasioned by the alleged diversion of water flowing in natural water courses through and over the premises of the petitioner, and used by it for manufacturing purposes. The claim of the petitioner was that the construction of sewer through streets adjoining petitioner's premises had caused the diversion. This case had been pending in Court for several years.

At the last September sitting of the Superior Court, the case was tried before a jury, and the verdict was for the petitioner for \$6,241, which includes interest amounting to \$1,241.

MARTHA W. SMITH v. CITY OF LOWELL.

Tort to recover compensation for injuries received by the plaintiff in falling on ice on French Street. A trial was had at the September sitting of the Superior Court, resulting in a verdict for the City.

JAMES GUILLINE, Adm'r, v. CITY OF LOWELL.

Tort for damages to plaintiff's intestate, a minor son, by reason of falling through an opening in Central Bridge, resulting in loss of his life. Trial at the last September term. Judgment for plaintiff for \$500. The case has gone to the Supreme Court on Exceptions taken by the City.

DANIEL GAGE v. CITY OF LOWELL.

Tort for injuries to plaintiff's horse, occasioned by the alleged defective condition of Pawtucket Street. Trial at the September term, and judgment for the City.

CLARINDA OTIS v. CITY OF LOWELL.

Tort for personal injuries occasioned by the alleged defective condition of Beach Street. Settled without a trial for \$500.

J. Q. A. HUBBARD v. CITY OF LOWELL.

Petition for a jury to assess damages claimed to have been occasioned to petitioner's premises on Lowell Street by the construction of a sewer in 1883. The heirs of the late H. C. Duganne assumed the defence of this case. Disposed of by an entry of "neither party."

ANN CARR V. CITY OF LOWELL.

Tort to recover damages for injuries to person and property, alleged to have been occasioned to plaintiff by reason of the defective condition of a portion of Lawrence Street, on the 21 day of June, 1884. The personal injuries were of a very severe nature, and the settlement made, under all the circumstances disclosed, was deemed advantageous to the City. Settled without a trial for \$600.

JULIUS T. ADAMS V. CITY OF LOWELL.

Petition for a jury to assess damages claimed to have been done to petitioner's premises by the construction of a sewer. Settled without a trial for \$150, without costs.

LOWELL BLEACHERY V. CITY OF LOWELL.

Petition for a jury to assess damages to petitioner's premises and water rights, claimed to have been sustained by laying out and widening Meadowcroft Street in 1883. A proposition of settlement made by the petitioner to accept the award of land damage made by the City Council upon the construction by the City of a Conduit to conduct spring and surface water to the premises of the petitioner, was accepted by the City. The work has been satisfactorily done and the case settled.

LAURA E. BLAKE V. CITY OF LOWELL.

Tort to recover damages for injuries received by the plaintiff in falling on ice on Kirk Street. Tried at the March term of the Superior Court, and judgment for the plaintiff. The case went to the Supreme Court on Exceptions, taken at the trial by my predecessor in office. A rescript has been received stating that the exceptions were over ruled.

NATHANIEL ALLEN V. CITY OF LOWELL.

Tort to recover compensation for injuries alleged to have been received by the plaintiff by falling on ice on Marshall Street. Trial at September term of the Superior Court. Judgment for plaintiff for \$250.

ELIZA COWLEY V. CITY OF LOWELL.

Petition for a jury to assess damages to petitioner's premises occasioned by the extension and grading of Taylor Street. Settled without a trial for \$200, without costs.

HYDE PARK V. CITY OF LOWELL.

This was an action of contract to recover from the City the amount expended for the temporary support of a pauper supposed to have a settlement in Lowell. Settled without a trial for \$25.

HANNAH REAGAN V. CITY OF LOWELL.

Tort to recover compensation for damages occasioned by the alleged defective condition of a sidewalk on Lawrence Street. Tried at the September term of the Superior Court ; verdict for the plaintiff for \$250.

THOMAS F. HART, pro ami, V. CITY OF LOWELL.

Tort to recover compensation for injuries alleged to have been sustained by plaintiff, occasioned by a defect in Keene Street. Settled without a trial for \$150, without costs.

MARY G. ADAMS V. CITY OF LOWELL.

Tort to recover damages for personal injuries, occasioned by an alleged defect in a public street. Tried at the September term of the Superior Court, and judgment for the City.

(1) MIDDLESEX COMPANY V. CITY OF LOWELL.

(2) MIDDLESEX COMPANY V. CITY OF LOWELL.

Since the report of the progress of these cases by my predecessor, they have been advanced a stage by the filling of the Master's report in the case number (1), and the preparation of a draft report in case number (2). When the report in the second case is returned into court, these important cases will be in readiness for an immediate hearing. As the right to make use of the Concord River as a depository of sewage, where the sewers empty therein, is involved, it is obvious that the determination of the issue is of great importance to the City.

(3) MIDDLESEX COMPANY V. CITY OF LOWELL.

This was a bill in equity to restrain the City from trespassing on the premises and water privileges of the plaintiff, by the maintenance of a structure on the land forming a part of the plaintiff's mill pond, in Concord River, and to define the proper boundary line between the premises of the City and the plaintiff. No progress has been made in this case since the answer was filed.

In the following cases on the foregoing list, no progress has been made during the year:

JOHN M. PEVEY V. CITY OF LOWELL.

SOLOMON BACHMAN V. CITY OF LOWELL.

CYRUS JOHNSON V. CITY OF LOWELL.

ANN ASHWORTH V. CITY OF LOWELL.

ROSA FOLEY V. CITY OF LOWELL.

HENRY E. PARKER, pet'r for cert. v. CITY OF LOWELL.

MARIA FLYNN V. CITY OF LOWELL.

BERNARD RILEY V. CITY OF LOWELL.

MARY A. McINTIRE v. CITY OF LOWELL.

ANN DONAHOE v. CITY OF LOWELL.

O. A. SIMPSON v. CITY OF LOWELL.

HENRY A. HILDRETH v. CITY OF LOWELL.

J. M. G. PARKER v. CITY OF LOWELL.

The following actions and proceedings have been brought against the City during the year ending March 1, 1887:

*THE LOWELL DISTRICT TELEGRAPH CO. v. CITY OF LOWELL.

*HANNAH WICKLANDER v. CITY OF LOWELL.

MARY ROYDS v. CITY OF LOWELL.

*JANE A. KENNEDY v. CITY OF LOWELL.

GEORGE A. CHASE v. CITY OF LOWELL.

*MARY HENNESSEY v. CITY OF LOWELL.

MARTHA A. FRANKLIN v. CITY OF LOWELL.

DAVID W. O'BRIEN v. CITY OF LOWELL.

ROBERT B. CAVERLY v. CITY OF LOWELL.

HENRY EMERY v. CITY OF LOWELL.

BENJAMIN PALMER v. CITY OF LOWELL.

HERBERT L. CHURCH v. CITY OF LOWELL.

CHRISTOPHER SHERIDAN v. CITY OF LOWELL.

COLEMAN O'LAUGHLIN v. CITY OF LOWELL.

CHARLES H. BURTT v. CITY OF LOWELL.

SARAH COCHRANE v. CITY OF LOWELL.

LEVI MILNER v. CITY OF LOWELL.

SOLOMON BACHMAN v. CITY OF LOWELL.

JOHN H. HOLDEN et al. v. CITY OF LOWELL.

DANIEL V. HAMBLETT v. CITY OF LOWELL.

JAMES MCGUIRE v. CITY OF LOWELL.

PATRICK MONGOVAN v. CITY OF LOWELL.

BOOTT COTTON MILLS v. CITY OF LOWELL.

MERRIMACK MANUFACTURING COMPANY v. CITY OF LOWELL.

TREMONT AND SUFFOLK MILLS v. CITY OF LOWELL.

THE LOWELL DISTRICT TELEGRAPH COMPANY V. CITY OF LOWELL.

This was an action of contract to recover damages for the breach of an alleged contract between the plaintiff and City wherein it was claimed the City had agreed to pay the plaintiff (\$2220) twenty-two hundred and twenty dollars each year for the term of five years, for the use of what was known as the Police Telegraph System, to be erected and maintained by the plaintiff. The vote authorizing the contract, and the work and material furnished under it, was passed by a majority of the Committee on Police of the Board of Aldermen, in the year 1884. Early in the Municipal year of 1885, the City Council repudiated the contract as invalid, and the system was discontinued. The plaintiffs were notified thereof and requested to remove the apparatus in the Station House. The suit was brought April 24, A. D., 1886, and at the last September term of the Superior Court the plaintiff was non-suited.

November 5, 1886, another suit for the same cause of action was brought against the city, which is now pending.

HANNAH WICKLANDER V. CITY OF LOWELL.

Tort to recover damages for injuries sustained by the plaintiff by reason of an icy sidewalk on Middlesex Street. Settled without a trial for \$400.

MARY ROYDS V. CITY OF LOWELL.

Tort to recover damages for personal injuries occasioned by the plaintiff falling on an accumulation of ice and snow on Bridge Street.

JANE A. KENNEDY V. CITY OF LOWELL.

Tort to recover damages for personal injuries alleged to have been occasioned by the defective condition of Taylor Street.

Trial at the September term of the Superior Court, and verdict for the City.

GEORGE A. CHASE V. CITY OF LOWELL.

Tort for personal injuries alleged to have been occasioned by the falling of a tree, located and growing on Worthen Street, September 3, 1885.

MARY HENNESSEY V. CITY OF LOWELL.

Tort for personal injuries alleged to have been occasioned by an accumulation of snow and ice on Gorham Street. Settled without a trial for \$300.

MARTHA A. FRANKLIN V. CITY OF LOWELL.

Tort for personal injuries alleged to have been occasioned by an accumulation of ice and snow on Sixth Street, February 15, 1886.

DAVID W. O'BRIEN V. CITY OF LOWELL.

Contract to recover the sum of \$380.40, which the plaintiff claims to be his proportion of the license fees received by him as City Clerk of the City of Lowell, for the issue of licenses for dogs. The whole amount of the fees was paid over by him to the treasurer of the County, and this action is to recover the amount authorized in the Statutes to be retained by the Clerks of cities and towns for such fees.

ROBERT B. CAVERLY V. CITY OF LOWELL.

Tort for personal injuries alleged to have been occasioned by a defect in the way on Varnum Street, June 15, 1886.

HENRY EMERY V. CITY OF LOWELL.

Tort to recover damages alleged to have been occasioned to the plaintiff's premises and crops by reason of the overflow of water from a conduit, constituting a part of the water works system in Pawtucketville.

BENJAMIN PALMER V. CITY OF LOWELL.

Contract to recover the balance alleged to be due upon a contract for paving stones furnished the City.

HERBERT L. CHURCH V CITY OF LOWELL.

Tort for personal injuries alleged to have been occasioned by a defect on Middlesex Street.

CHRISTOPHER SHERIDAN,

COLEMAN O'LAUGHLIN.

Petitions for a jury to assess damage alleged to have occasioned to petitioners' premises, by the change of grade of Chestnut Street. The resolution of the City Council, under which the work was done, was passed in October, 1885.

CHARLES H. BURTT V. CITY OF LOWELL.

Tort to recover damages for personal injuries alleged to have been occasioned by falling, November 20, 1886, upon doorstep, projecting into the way on Middlesex Street. The Hamilton Company have been notified to come in and assume the defence of this suit.

SARAH COCHRANE V. CITY OF LOWELL,

LEVI MILNER V. CITY OF LOWELL,

SOLOMON BACHMAN V. CITY OF LOWELL,

JOHN J. HOLDEN v. CITY OF LOWELL,
DANIEL V. HAMBLETT v. CITY OF LOWELL.

These five proceedings are on application for juries for the assessment of damages alleged, by the petitioners, to have been sustained by them by reason of the widening of Riverside Street by vote of the City Council, passed December 22, 1885.

PATRICK MONGOVAN v. CITY OF LOWELL.

This is an action of tort brought in the United States Circuit Court, Massachusetts District, to recover damages for personal injuries alleged to have been occasioned by the falling of a derrick used in the repair of the high service reservoir. William H. Ward has been notified to come in and defend.

JAMES MCGUIRE v. CITY OF LOWELL.

Tort for personal injuries alleged to have been sustained by the minor daughter of the plaintiff, Alice McGuire, by reason of falling on doorsteps which are claimed to have projected out upon the sidewalk on Cross Street, December 3, 1886.

BOOTT COTTON MILLS v. CITY OF LOWELL,
MERRIMACK MANUFACTURING COMPANY v. CITY OF LOWELL,
TREMONT AND SUFFOLK MILLS v. CITY OF LOWELL.

Petitions to the County Commissioners for the abatement of taxes, in the nature of an appeal from the assessment of tax made by the assessors of the City of Lowell. An extended hearing on the petition of the Boott Cotton Mills was had in February, 1887, and the result has not yet been announced.

The business of this office has increased very rapidly within the last few years, and will, undoubtedly, continue so to do, keeping pace with the growth of the City, and the increase and improvement of its highways and conveniences.

In the near future, it is not unlikely that it may be found necessary for the Solicitor to give his undivided time and attention to the discharge of the duties of his office, and that suitable provision be made for the supply of clerical and other subordinate assistance, proportioned to the multifarious and increasing duties of this responsible office.

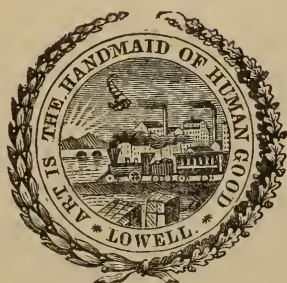
In conclusion, I gratefully acknowledge the valuable assistance rendered me in the discharge of my duties, by the various officials and employees of the City, and more especially to Mr. Henry C. Pike, of the Police Department, who has been detailed for special service in this department.

Respectfully submitted,

JOHN J. PICKMAN,

City Solicitor.

ANNUAL REPORT
OF THE
OVERSEERS OF THE POOR,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.
WITH ACCOMPANYING PAPERS.



LOWELL, MASS. :
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 5, 1887.

Read and ordered on file. Sent down for concurrence.

DAVID W. O'BRIEN,

City Clerk.

IN COMMON COUNCIL, April 5, 1887.

Received and ordered on file in concurrence.

WILLIAM J. COUGHLIN,

Clerk.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF INSTITUTIONS
AT CITY FARM.

1886.

REPORT OF THE SUPERINTENDENT.

INSTITUTIONS AT CITY FARM,

LOWELL, DEC. 31, 1886.

To the Board of Overseers of the Poor of the City of Lowell :

Gentlemen :—In accordance with the rules, I respectfully submit the following as my Fifth Annual Report of the condition of the Institutions together with its statistics.

The number of inmates in the Almshouse January 1, 1886, was 267 ; 138 Males and 129 Females. During the year there was admitted 321 ; 159 Males and 162 Females, making the whole number for the year 588. Of this number there were discharged 316 ; 157 Males and 159 Females, leaving the number remaining December 20, 1886, 272 ; 123 Males and 149 Females. The average number supported for the year was 262. There were during the year twelve births in the Almshouse, 6 Males and 6 Females. Of those discharged from the Almshouse, Forty died, 18 Males and 22 Fe-

males, of the following diseases: Consumption 13, Debility 5, Old Age 3, Paralysis 5, Apoplexy 2, Brights 2, Cancer 2, Heart Disease 1, Brain Disease 1, Syphilis 4.

INSANE.

The number of insane in the Almshouse January 1, 1886, was 81; 22 Males and 59 Females. During the year there were admitted 31; 9 Males and 22 Females, making the whole number for the year 112; 32 Males and 80 Females. Of this number there were discharged during the year 32, leaving the number remaining Dec. 20, 1886, 80; 22 Males and 58 Females. Of the number of insane discharged, there were 10 that died.

The above statistics of the insane are also included in those of the Almshouse. The number of deaths in the Almshouse (40) covers all the institutions. The whole number in the various institutions during the year being 920. The health of the inmates have been good. Dr. Colton has been prompt in his attendance.

WORKHOUSE.

The number of inmates January 1, 1886 was 39; 16 Males and 23 Females. The number committed during the year was 188; 42 Males and 146 Females. Of this number there were discharged during the year, 175, ma-

king the whole number 227, leaving the number December 20, 1886, to be 46, with 6 absconded. The average number supported during the year was 40. The number pardoned during the year was 3. The cause of committments was as follows ; 114 for drunkenness, 7 for second offence, 37 for third offence, 24 common drunkard, 3 for larcency, 2 vagrants, 1 assault and battery. The longest sentence was one year, the shortest, for 30 days.

The oldest person committed was 76 years, the youngest, 18 years. Of those committed, 118 were born in Ireland, 40 in America, 18 in England, 9 in Scotland, and 3 in Canada.

EXPENDITURES.

The average number supported in the Almshouse being 262, in the workhouse 40, in the House of employment for juvenile offenders 34, makes the whole average in all the institutions 336. The amount of bills paid for all expenses at the City Farm was forty-one thousand eighty-two dollars and five cents, (\$41,082.05). From this I deduct the following items: eight thousand four hundred and sixty-eight dollars (\$8,468.00) the value of four thousand two hundred and sixty-three provision orders, delivered as per order of the Secretary of the Overseers of the Poor. Four hundred and eighty dol-

lars and fifty-three cents, the value of paper bags, baskets and delivery of the same. \$793.08 sales from the farm. \$3,155.68 the amount for board of persons in the institutions. \$2,943.00 coal, wood and provisions on hand, which leaves the actual cost for the support of the City's poor \$25,241.76, a yearly cost of \$75.13, or a weekly cost of \$1.44. For the statistics of the School I refer you to the Teacher's report. I tender to the Board my thanks; also to the officers.

Respectfully,

ALBERT PINDAR,

Superintendent.

ANNUAL REPORT
OF THE
TEACHER AND CHAPLAIN OF THE INSTITUTIONS
AT CITY FARM.
1886.

REPORT OF TEACHER AND CHAPLAIN.

To the Board of Overseers of the Poor :

Gentlemen:—It is with pleasure that I submit to your Honorable Body, my report of our work for the year 1886.

Classification of the School under my Supervision.

DEVOTIONAL EXERCISES.

Morning Prayer.

Franklin Fifth Reader, one class.....	7
Franklin Fourth Reader, one class.....	17
Franklin Third Reader, one class.....	27
Higginson's History of the United States, two classes.....	20
Child's History of the United States, two classes.....	22
Worcester's Speller, two classes.....	36
Bradbury's Eaton's Arithmetic, two classes.....	35
Thompson's Intellectual Arithmetic, three classes.....	46
Colburn's Intellectual Arithmetic, one class.....	4
Spelling and defining, two classes.....	40
In writing.....	51

Classification of the Department Taught by my Assistant.

Franklin Third Reader, one class.....	10
Franklin Second Reader, two classes.....	11
Franklin Primer.....	14
Munroe's Chart, one class.....	11
Franklin's Primary Arithmetic, one class.....	21
In writing.....	21
Pupils attending School Jan. 1st, 1886 were.....	83
Males under sentence.....	22
Females under sentence.....	1
Males not sentenced.....	48
Females not sentenced.....	12
Average Monthly Attendance.....	83 1-4
Average age under sentence.....	11
Average age not under sentence.....	8 1-2
Highest number for any one month, (in May).....	100
Lowest number for any one month, (in Sept.).....	60
Admitted on sentence.....	50
Males.....	50
Females.....	0
Discharged by expiration of sentence.....	26
Pardoned.....	6
Released on probation.....	1
Number remaining on sentence.....	39
Whole number attending school at the present time.....	94
Males under sentence.....	39
Females under sentence.....	0
Males not under sentence.....	43
Females not under sentence.....	12

COMMITTED FOR THE FOLLOWING OFFENCES.

Truancy.....	40
Larceny.....	4
Vagrancy.....	4
Stubborness.....	2

BIRTHPLACE OF THOSE UNDER SENTENCE.

United States,.....	38
Ireland,.....	6
England,.....	2
Canada,.....	4

NUMBER OF TIMES COMMITTED.

For the first time,.....	41
For the second time,.....	5
For the third time,.....	3
For the fourth time,.....	0
For the fifth time,.....	1

SENTENCED TO THE SCHOOL FROM THE FOLLOWING
CITIES AND TOWNS.

Lowell,.....	36
Chelsea,.....	3
Somerville,.....	3
Fitchburg,.....	1
Marlboro',.....	1
Woburn,.....	3
Malden,.....	3

DIVISION OF THE TWENTY-FOUR HOURS.

Rise at,.....	5.45 a. m.
Morning prayers shortly after, ..	6.00 a. m.
Breakfast,.....	6.30 a. m.
Recess,...	

School,.....	8.30 to 11.30 a. m.
Recess,.....	
Dinner,.....	12.00 m.
Recess,.....	
School.	1.30 to 3.30 p. m.
Recreation,	
Supper, followed by recess,.....	5.30 p. m.
Evening prayers and hour for retiring,.....	7.15 p. m.

During the summer months the boys rise, perform their ablutions, and have breakfast one hour earlier and have supper, recess, prayers, and retire one-half hour later.

As no man who is thoroughly in earnest in a certain line of work is ever satisfied with the amount he is able to accomplish, yet we feel that the year as a whole has been one of fair success.

We have done all in our power to further every interest, not only of the school, but in every other department of work we have been called upon to assist in performing connected with our institution.

It gives me great pleasure to say that my intercourse with the Superintendent and Matron during the year has been very pleasant; to them I am indebted for many kind acts which have been of great value to me in the performance of my duties.

Perfect harmony has characterized the year's work between myself and assistant, Mr. M. Sexton.

I have found him at all times ready and willing to

perform his share of our work. I can truly say of him that he has been earnest and faithful in the performance of every duty.

In closing this report, allow me, if you please, Gentlemen, to return my hearty thanks to each one of you, for the very kind and courteous manner I have been treated by your Board.

WM. A. LANG.

ANNUAL REPORT
OF THE
FREE DISPENSARY PHYSICIANS
1886.

REPORT OF DISPENSARY PHYSICIANS.

FREE DISPENSARY ROOMS,

LOWELL, February 1, 1887.

To the Overseers of the Poor of Lowell:

Gentlemen:—The physicians of the Free Dispensary present to you their report for the year 1886. The Dispensary Staff consisting of the following twelve physicians, chosen by the Overseers of the Poor, Drs. Allen, Colton, Eaton, W. A. Johnson, Huntress, McOwen, Patterson, Ricker, H. J. Smith, C. P. Spaulding, Sullivan and Viles, attended to their duties during the year and felt well repaid for their work in the fact that they have been of service to the sick poor of Lowell.

We think that there have been very few cases of imposition here, thanks to the excellent care of your secretary. Very few patients, if any, come here who can afford to pay for medical treatment. Most of the cases are of genuine sickness and deserving charity.

The whole number of new prescriptions filled at the

Dispensary was 4486. Sixteen hundred and one (1601) prescriptions were repeated during the year.

The whole number of patients treated here was 608. Of these the diagnosis was given in 467 cases.

The following list comprises the principal diseases and the number of cases of each.

Bronchitis	76
Accident	31
Phthisis	31
Rheumatism	26
Dyspepsia	25
Debility	18
Syphilis	15
Ulcers	15
Disease of Heart	9
Gonorrhœa	8
Scrofula	7
Extraction of teeth	7
Diarrhœa	6
Ascarides	6
Prolapsus Uteri	5
Leucorrhœa	4
Eczæma	4
Lumbago	3
Hæmorrhoids	3
Pleurisy	3
Tonsillitis	2
Congestion of Liver	2
Ottorrhœa	2
Orchitis	2

Wm. T. Loftus has discharged the duties of drug clerk to the satisfaction of the Staff.

We desire to extend our thanks to Messrs. Cushing, Lovejoy and Elliott, the Dispensary Committee of your Honorable Board, who have attended to all the wants and suggestions of the Dispensary Physicians.

Respectfully submitted,

LEONARD HUNTRESS,

Secretary for the Board.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF STREETS
OF THE
CITY OF LOWELL
FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 17, 1887.

Read and ordered on file, sent down.

DAVID W. O'BRIEN, *City Clerk*.

IN COMMON COUNCIL, January 17, 1887.

Received, read, and ordered on file, in concurrence.

DAVID CHASE, *Clerk*.

REPORT.

To His Honor the Mayor, and Gentlemen of the City Council :

In accordance with the requirements of the City Ordinances, I respectfully submit the following Report of the departments under my care, viz. : Roads and Bridges, and Sewers, for the year 1886.

ROADS AND BRIDGES.

GENERAL STATEMENT OF EXPENDITURES.

Balance undrawn Jan. 1, 1886	\$ 8,087 22
Appropriated for the year 1886.....	70,000 00
Transfers	22,000 00
Receipts from various sources.....	18,181 57
Total.....	<u>\$118,268 79</u>
Expenditures.....	\$112,752 80
Transfer.....	3,000 00
Balance	<u>2,515 99</u>
Total	<u>118,268 79</u>
Total expenditures.....	\$112,752 80
Less receipts from various sources	<u>18,181 57</u>
Total	94,571 23
Less amount paid for damages, land, etc.....	<u>1,371 78</u>
Total net expenditures for ordinary street purposes.....	<u>\$93,199 45</u>

STREETS LAID OUT AND ACCEPTED IN 1886.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.
Cambridge...	Extended to Tanner Street	358
Hamblet.....	River and City Line	391
Ludlam.....	Extended to Bridge Street.....	480
Stanley.....	River and West Sixth.....	735

Total1964

The lines have been defined and grade established on the following public streets :

Mammoth Road from Pawtucket Bridge to the City Line ;

River Street from a point near Aiken Street to the City Line.

Number of miles of accepted streets Jan. 1, 1886..... $92\frac{61}{100}$

Accepted in 1886 $\frac{37}{100}$

Total number of miles of accepted streets Jan. 1, 1887..... $92\frac{98}{100}$

GRANITE PAVING.

STREETS.	BETWEEN WHAT STREETS.	SQ. YDS.
Branch	Coral and Loring.....	1220
Bridge	Third and Sixth.....	3067
Dutton.....	Merrimack and Market.....	1700

Total5987

The paving laid in Bridge and Dutton Streets was to replace worn-out wooden paving.

The concrete roadway on Pawtucket Street has been repaired, 3754.1 square yards of concrete top dressing, having been laid at a cost of \$2252.46.

COBBLE STONE GUTTER PAVING.

STREETS.	SQ. FEET.	STREETS.	SQ. FEET.
Alder.....	1200	Mansur.....	375
Andover.....	1800	Methuen.....	1500
Appleton.....	2700	Moody.....	850
Beach.....	3025	Moore.....	2310
Bowers.....	1068	Mt. Vernon.....	1012
Cady.....	414	Nesmith.....	940
Chapel.....	500	River.....	2250
Charles.....	1430	Seventh.....	400
Chestnut.....	1750	Suffolk.....	3700
Cross.....	4870	Talbot.....	1393
Eighth.....	525	Tilden.....	875
Eleventh.....	440	Union.....	675
Fairmount.....	2314	Willow.....	1250
Garnet.....	900	Winter.....	1146

Total.....41,612 sq. ft., or $4,623\frac{5}{8}$ sq. yds.

REPORT OF THE GRANITE CROSSINGS

Have been laid of wide granite flagging, during the year, as follows :

STREETS.	LOCATION.
Adams	At Morrill School.
Beacon	At Third Street.
Beacon	Opp. Third Street.
Belmont Avenue.....	At A. G. Cumnock's Residence.
Bowers	At Fletcher Street.
Bridge	At West Third Street.
Bridge	At West Fourth Street.
Bridge	At West Fifth Street.
Bridge	Opp. West Fifth Street.
Bridge	Opp. Thirteenth Street.
Central.....	At Mill Street.
Central.....	At Union Street.
Chestnut	At Nesmith Street.
Common	At Morrill School.
Crosby.....	At Kinsman Street.—2.
Crosby.....	At New Street.
Fletcher.....	At Varney Street.
Griffin	At Agawam Street.
Hampshire.....	At Bridge Street.
Keene.....	At Cedar Street.

STREETS.	LOCATION.
Kinsman	At Crosby Street.
Madison.....	At Burns Street.
Market	At Dutton Street.
Middlesex	At Appleton Corp.
Mt. Vernon.....	At Lombard Street.
Nesmith	At Andover Street.
Nesmith	At Oak Street.
Nesmith	At Mansur Street.
Nesmith	Opp. Mansur Street.
Paige	At Baptist Church.
Seventh	Opp. Read Street.
Stevens	At Westford Street. —2.
Vernon	Opp. Richardson Street.
Westford.....	Opp. Dover Street.
Westford.....	At Hastings Street.
Westford.....	Opp. Hastings Street.
Westford.....	At Osgood Street.
Westford.....	At Stevens Street.
Walker.....	At Branch Street.

GRADING.

STREETS.	STREETS.
Adams.	Ferry Avenue.
Aiken.	Fletcher.
Albion.	Grove.
Andover.	Hamblet.
Appleton.	Harrison.
Baldwin.	High.
Bartlett.	Howe.
Beacon.	Humphrey.
Bowers.	Lagrange.
Boylston.	Lilley Avenue.
Branch.	Lincoln.
Bridge.	Marginal.
Chapel.	Marshall.
Charles.	Methuen.
Chelmsford.	Middlesex.
Chestnut.	New Bridge Road.
Coral.	New School.
Davidson.	Nichols.
Dover.	Old Meadow Road.
East Pine.	Osgood.
Eleventh.	Parker.

STREETS.	STREETS.
Pawtucket.	Suffolk.
Pine.	Tanner.
Plain.	Tenth.
Pleasant.	Varnum Avenue.
Poor Farm Road.	Wannalancet.
Richmond.	West.
River.	Western Avenue.
Royal.	West Adams.
Sargent.	Westford.
Seventh.	West Sixth.
South Loring.	Wilder.
Spencer.	Worthen.
Stevens.	Wyman.

REPORT OF THE
MACADAMIZING.

STREETS.	BETWEEN WHAT STREETS.
Adams.....	Opp. Morrill School and Cross.
Beacon	Durant and Sixth. Incomplete.
Branch	Loring and Middlesex.
Fletcher.....	Varney and Bowers.
Lombard	Mt. Vernon and School.
Methuen	Eleventh and Beacon.
Middlesex ...	Branch to residence of Francis Jewett.
Middlesex ...	Residence of H. K. Ferrin to Baldwin Street.
Suffolk	Broadway and Merrimack.
Westford....	Chelmsford and School. Incomplete.

SIDEWALKS.

STREETS.	BETWEEN WHAT STREETS.	LIN. FT. COR. STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CONCRETE
Albion	West Fourth and West Fifth, easterly side.....	8.6	245.9	148.5
Barrington...	South Whipple and Agawam, both sides.....		467.4	
Belmont Ave.	Mansur and Fairview, easterly side.....		383.8	138.4
Bowers	Mt. Vernon and School, northerly side.....	9.6	323.3	
Chelmsford ..	Westford and Howard, westerly side		375.3	291.6
Chestnut	Fayette and High, southerly side.....	20.8	184.2	139.0
Davidson ...	Wall and Wall, southerly side	10.1	168.7	
East Merrimack.	Near Alder Street, northerly side.....			80.1
Eighth	Methuen and Webster Ave., northerly side....	9.7	57.4	
Eleventh	Opp. the premises of Mary A. Savage, southerly side		75.0	44.1
Fremont.....	Third and Sixth, westerly side			333.8
Harrison	Oak and Rogers, both sides		1446.4	
High.....	Boylston and Rogers, easterly side		610.4	
High.....	Boylston and premises of Francis Brown, westerly side		1350.2	

STREETS.	BETWEEN WHAT STREETS.	LIN. FT. COR. STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CONCRETE
Hildreth.....	Ennell Street and Cemetery, westerly side.....	18.6	593.6	353.7
Methuen	Beacon Street and estate of Loren Soper, westerly side.	34.9	1186.6	836.6
Osgood.....	Westford, southerly to vacant land of G. N. Osgood, easterly side	10.2	305.9	123.3
Osgood.....	In front of the premises of Francis Carl and Ira O. Adams, westerly side...		150.	91.1
Pleasant.....	Rogers Street, northerly to sidewalk in front of the premises of Enoch Messenger, westerly side....		797.1	
River	West and Aiken, easterly side		1650.7	
River	Aiken and City Line, easterly side	57.5	2332.8	
River	Opp. the premises of August Fels and estate of David G. Skillings, westerly side		252.6	
Second Ave..	Mammoth Road easterly, northerly side.....		684.8	
Seventh	Read and Varnum, southerly side	18.3	277.2	176.6
South Loring.	Liberty and street D, westerly side.....		1180.0	369.1
Stevens	Westford southerly, westerly side	19.4	186.2	

STREETS.	BETWEEN WHAT STREETS.	LIN. FT. COR. STONE.	LIN. FT. EDGE- STONE.	SQ. YDS. CONCRETE
Talbot	Fairmount easterly, north- erly side		248.7	190.8
Talbot	In front of the premises of Hiram J. Potter, souther- ly side		75.0	53.3
Taylor	Lawrence easterly, in front of the premises of Frank & Jane Cox, northerly side	7.6	35.2	40.6
Twelfth	Bridge and May, norther- ly side			284.2
Wachusett ..	Thirteenth and Twelfth, northerly side	9.2	571.5	
Washington..	Hale Street southerly, easterly side	26.8	990.8	
West Fourth.	Bridge Street westerly, northerly side	9.7	753.7	461.1
West Sixth..	Jewett and West, norther- ly side	18.7	718.7	
Wilder	Marginal and N. & L. R. R., westerly side	9.3	110.4	70.1
Willie	In front of the premises of John B. Richardson, westerly side		32.7	38.7
	Concrete re-laid and patch- ing done on sundry streets			2078.3
Totals		299.0	18,822.2	6343.0

1605 feet of edgestones have been set on unfinished sidewalks on Keene, South, Stackpole, and Whipple Streets.

REPORT OF THE
WALKS TOP DRESSED.

STREETS.	BETWEEN WHAT STREETS.	SQ. YDS. CONCRETE.
Branch	Walker and Loring.....	63.5
Bridge	West Fourth and West Ninth.....	409.4
Broadway ...	School and Willie	302.7
Church and George.	Cor. of Church and George Streets.....	22.0
Cross	Mt. Vernon and School	136.4
Durant	Near Third Street.....	14.2
East Merrimack.	Fayette and High	213.1
Eleventh	Bridge and Methuen.....	122.2
Fairmount...	Mansur and Fairview	319.3
Fifth.....	Read and Methuen	158.9
First	Near Bridge Street	62.1
Fourth	Read and Myrtle.....	349.3
Howard	Railroad Street southerly.....	62.3
Jefferson	Market Street southerly.....	113.4
Market	Hanover and Worthen	111.3
Market	Near Shattuck.....	51.8
Methuen	Tenth and Seventh	27.3
Middlesex ...	Thorndike Street southerly	156.6
Middlesex ...	School and Walker	56.0
Moody	Near Spalding Street	25.5
Mt. Vernon..	Near Broadway	153.1

STREETS.	BETWEEN WHAT STREETS.	SQ. YDS. CONCRETE.
Mt. Washington.	Pawtucket and Varney.....	141.4
Myrtle	Sixth and Tenth	65.6
Salem.....	Cabot and Pawtucket.....	317.5
School	Varney and Pawtucket.....	87.5
Smith.....	Westford and Liberty.....	497.9
Sixth	Beach and Beacon.....	179.4
South	Summer and Appleton	17.8
Third	Fremont and Beacon.....	258.1
Varney	Mt. Vernon and Fletcher.....	48.1
Westford	Cor. of Nichols and Grand	105.6
West Fifth ..	Near Bridge Street	167.1
West Sixth ..	Near Bridge Street	66.8
Total		4883.2

REPORT OF THE
PERSONAL PROPERTY.

The following is a schedule of Personal Property under my charge Dec. 31, 1886, belonging to the appropriation for Roads and Bridges :

1 engine and tools,	14 single carts,
Blacksmiths' tools and stock,	2 new cart bodies,
5 tons of hay,	11 tool chests,
6 tons rye straw,	1 watering cart,
135 bushels of oats,	4 wood wagons,
35 bushels of corn,	1 pauper wagon,
6 bags of meal,	2 lumber wagons,
43 horses,	1 road builder,
17 sets double harnesses,	1 hand cart,
18 sets single harnesses,	2 stone drags,
1 set lead harnesses,	1 pair draft wheels,
36 feed baskets,	5 single wagons,
116 curry and brushes,	1 committee wagon,
56 collars,	17 double wood sleds,
45 halters,	9 snow scrapers,
60 blankets,	2 snow ploughs,
51 surcingles,	3 ploughs,
1 horse sling,	2 single sleighs,
5 horse covers,	2 stone truck drags.
3 buffalo robes,	2 street rollers,
16 double carts,	2 street sweepers,

5 street rakes,	2 scythes,
7 forks,	106 stake chains,
2 augers,	24 draft chains,
1 new pung,	15 wheelbarrows,
4000 ft. old bridge lumber,	131 shovels,
6 horse's water pails,	1 grindstone,
150 ft. of $1\frac{1}{4}$ in. rope,	1 boring machine,
11 steel wedges,	12 grain rakes,
35 stone cutter's points,	3 watch tackles,
2 trowels,	1 set corner stone,
4 paving mauls,	2 electric batteries,
922 lbs. steam drills,	2 stone wheelbarrows,
44 plug drills,	1 large platform scale,
31 crowbars,	2 corn brooms,
10 tramping bars,	6 stone bounds,
68 snow shovels,	3 anvils,
44 hoes,	1 coal screen,
10 lanterns,	3 long-handled shovels,
15 oil cans,	3 wash-tubs,
12 pails,	2 ice chisels,
134 picks,	4 vises,
4 handsaws,	6 monkey wrenches,
10 axes,	2 bitstocks,
3 adzes,	6 wooden mauls,
2 jack screws,	5 mauls, long handles,

11 wheelbarrow frames,	1 hatchet,
7 wheelbarrow wheels,	4 stone rakes,
200 lbs. nails,	58 pick handles,
118,000 feet oak lumber,	50 feet rubber hose,
1 feather duster,	16 drilling spoons,
1 cask spikes,	2½ barrels of oil,
7,856 feet 3-inch plank,	215 feet flagging stones,
1,000 feet spruce lumber,	2 tons fine feed,
117 street signs,	1 jaw for crusher,
10 gallons blue paint,	2 kegs powder,
4 coal hods,	20 bundles broom stuff,
4 clocks,	3 hogs,
2 cross-cut saws,	1 stone crusher building,
3 ladders,	8 chairs,
5 powder cans,	25 hammer handles,
3 hay cutters,	4 street brooms,
3 derricks and rig,	50 hammers,
4 spirit levels,	1 stone crusher,
1 small platform scale,	2,068 feet edge stone,
3 tubs,	2 writing desks,
2 long levels,	2 lap robes.
5 stoves,	

SEWERS AND DRAINS.

Balance on hand Jan. 1, 1886.....	\$ 6,696.93
Appropriation for the year 1886.....	40,000.00
Receipts from various sources.....	5,858.39
Total	<u>\$52,555.32</u>
Expenditures for the year 1886.....	\$49,601.40
Balance on hand Dec. 31, 1886.....	2,953.92
Total	<u>\$52,555.32</u>

TABLE SHOWING THE SEWERS BUILT DURING THE YEAR, LENGTH, SIZE, MATERIAL, WHEN BEGUN AND FINISHED, AND COST.

STREETS.	LENGTH IN FT.	SIZE IN INCHES.	MATERIALS.	BEGUN.	FINISHED.	COST.
Aiken Avenue	1045	30 and 27x18	Brick.	June 9.	Sept. 3.	4917.97
Chester	213	12	Portland Pipe.	Oct. 18.	Oct. 21.	247.83
Concord	632	12	"	Oct. 9.	Oct. 25.	900.55
Central	252	18 and 15	"	Sept. 22.	Oct. 16.	1233.51
Congress (unfinished)	300	15	"	Sept. 14.	.....	.....
High	427	15 and 12	Akron Pipe.	April 12.	May 5.	1309.74
Howland Court and Mammoth Road	326	12 and 10	Portland Pipe.	Aug. 18.	Aug. 27.	491.94
Kirk	144	12	"	Oct. 26.	Dec. 13.	1375.38
Ludlam	722	15	"	Aug. 26.	Sept. 13.	1294.13
Middlesex, from Walker	261	12	Akron Pipe.	Jan. 4.	Feb. 3.	693.62
Middlesex, extension	444	12	Portland Pipe.	Dec. 6.	Dec. 23.	1045.20
Mason	917	52x35	Brick.	April 10.	Aug. 17.	7809.35
Madison	84	12	Portland Pipe.	Aug. 26.	Sept. 3.	163.79
Royal, begun in 1885	225	12	Akron Pipe.	Nov. 12, '85.	Mar. 12.	2885.81
Robbins	408	12	Portland Pipe.	Oct. 21.	Nov. 11.	994.01
Rogers, begun in 1885	397	30x20 and 27x18	Brick.	Nov. 19, '85.	Feb. 19.	4612.71
Stevens	334	12	Portland Pipe.	Nov. 9.	Nov. 22.	643.43
Stevens, extension	368	12	"	Nov. 22.	Dec. 6.	702.02
South Loring, north of Mason	704	12	"	Aug. 27.	Oct. 7.	1597.54
South Loring, south of Mason	355	12	"	Oct. 1.	Oct. 9.	390.56
Thorndike, overflow to Pawtucket Canal	200	30	Brick.	May 7.	June 9.	3135.00

Lineal feet of sewers laid in 1886.....8758, or $1\frac{65}{100}$

Laid previously..... $48\frac{53}{100}$ miles

Length of sewers Jan. 1, 1887.....50.18 miles

STREET CATCH BASINS BUILT DURING THE YEAR.

STREETS.	LOCATION.	COST.
Dutton.....	Southerly side, near Merrimack.....	74.76
E. Merrimack..	Northerly side, near Concord River...	66.66
High.....	Easterly side, near Boylston.....	78.07
High.....	Westerly side, near Boylston.....	77.08
Harrison	Easterly side, near Oak.....	66.76
Harrison	Westerly side, near Oak.....	66.76
Moody.....	Southerly side, near Tilden.....	123.59
Methuen	Westerly side, near Eighth.....	76.05
Methuen	Easterly side, near Eleventh.....	76.05
Mammoth Road	Westerly side, near Second Avenue...	113.35
Osgood.....	Easterly side, near Westford	77.02
Osgood.....	Westerly side, near Westford.....	77.02
River	Northerly side, near West.....	67.00
Rogers.....	Southerly side, near Clay	77.08
Rogers.....	Southerly side, near High.....	77.08
Tyler	Both sides, 7 basins to replace cesspools	532.35

PERSONAL PROPERTY.

The following is a schedule of the Personal Property under my charge Dec. 31, 1886, belonging to the appropriation for Sewers and Drains :

1 pumping engine,	13 striking hammers,
2 derricks and rig,	8 heavy hammers,
1 hoisting engine,	2 nail hammers,
3 submerged pumps,	12 hammer handles,
2 pile-drivers,	3 adzes,
2 horses,	2 axes,
2 carts,	11 jack screws,
2 sleighs,	1,248 lbs. steel,
3 wheelbarrows,	12 iron bars,
6 sets blue stone for catch basin	2 monkey wrenches,
4 marine pumps,	2 reducers,
4 oil cans,	3 dutchmans,
7 hoes,	59 shovels,
40 lanterns,	4 powder cans,
56 picks,	1 mallet,
17 pails,	2 hatchets,
6 hand drills,	4 levels,
3 hand saws,	17 drilling spoons,
2 cross-cut saws,	17 tag ropes,
2 chisels,	3 trowels,
4 hand hammers,	16 pairs tongs,

10 face hammers,	40 lbs. nails,
2 iron rakes,	4 iron dogs,
14 tool chests,	4 chests blacksmith's tools,
3 iron mauls,	3 steam drills,
100 feet $1\frac{3}{4}$ inch rope,	4 sheeting crabs,
1,000 feet leather hose,	5 tubs,
19 sheeting caps,	10,000 feet spruce lumber,
2 electric batteries,	8 catch basin dippers,
4 blacksmith's forges,	100 feet rubber hose,
3 anvils,	12 pick handles,
2 vises,	8 dozens lantern globes,
3 sets tackles and falls,	25 gallons of oil,
3 crabs,	1 grindstone,
5 sets shear poles,	5 hoisting tubs,
10 chains,	35 lbs. high explosive powder,
2 50-foot tapes,	1 sand screen,
3 steel squares,	37 steel wedges,
3 wheelbarrows,	1 portable kettle.
13 wooden mauls,	

REMARKS.

During the past year, it was found necessary to entirely rebuild the woodwork on Pawtucket Bridge, and the bridge at the present time is practically as good as new. Central Bridge has been replanked, and is in good repair for several years to come. The laying out and grading of Pine Street at a cost of \$1,675, Parker Street at a cost of \$1,875, and Humphrey Street at a cost of \$450, were done by contract. The numerous extensions of the Horse Railroad tracks have been very costly to this department, owing to the fact that the tracks have to be laid at grade, and very few, if any, of the streets were at their true grade at the time. All streets which have been graded the past year, have been laid at true grade. Many of the sidewalks had to be rebuilt, on account of the rough, uneven and dangerous places in them. The work done was mostly on brick walks. It was found necessary to top-dress a large number of concrete walks. Notwithstanding the increase of wages this year, over last, the streets which were graded by contract, the unexpected expense on Pawtucket and Central Bridges, the unusually large amount of work caused by the Horse Railroad, the ordinary expenses of the department have been kept at a very low basis.

Again, I would most respectfully suggest the need of a steam road roller. It would be of great service in rebuilding and rolling the different streets. The stone crusher has been entirely overhauled, and is in splendid running order. The time is not far distant when a portable crusher will save the city many dollars in labor and teaming. On streets where the travel is heavy, nothing but paving should be laid; and it is advisable to macadamize as much as possible, in preference to grading, as it is almost an impossibility to procure suitable material for grading. Western Avenue, near the Freight Depot, is in bad condition, for which there is no lasting remedy but granite paving. Granite crossings are superior to concrete, and less repairs being needed, are more desirable for travel, etc. Men have been detailed on the principal streets, whose duties are to keep the

crossings clean. Their work is satisfactory, and ought to be continued and extended the coming year.

ACKNOWLEDGEMENTS.

In closing this report, I desire to acknowledge my obligations to His Honor the Mayor, for his constant kindness, counsel and advice. To the gentlemen of the City Council I beg to tender sincere gratitude for the consideration and courtesy shown the departments; and especially, to thank the Committees on Roads and Bridges, and Sewers and Drains, for their uniform helpfulness and encouragement throughout the year. I wish also to express my sense of the fidelity of the Assistant Superintendent, Foremen, Time Keeper and subordinates under my charge, and to testify to their diligent service in behalf of our city. I also wish to thank the City Engineer and his assistants for the kindness and courtesies extended by them throughout the year.

All of which is respectfully submitted,

C. H. HANSON,

Superintendent of Streets.

ANNUAL REPORT
OF THE
SUPERINTENDENT
OF
PUBLIC BUILDINGS
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.



LOWELL, MASS :
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Feb. 2, 1887.

Read and ordered on file. Sent down.

DAVID W. O'BRIEN,

City Clerk.

IN COMMON COUNCIL, Feb. 8, 1887.

Read and ordered on file.

WILLIAM J. COUGHLIN,

Clerk.

JOINT STANDING COMMITTEE ON LANDS AND BUILDINGS.

Alderman, SAMUEL D. BUTTERWORTH, *Chairman.*

“ GEORGE E. STANLEY,

Councilman, GEORGE A. ROPER, *Clerk.*

“ FRANCIS D. MUNN, JR.,

“ JOHN E. DRURY.

SUPERINTENDENT - - - - - GEO. A. CHASE.

REPORT.

OFFICE OF SUPT. OF PUBLIC BUILDINGS.

To the City Council of Lowell:

Gentlemen: In compliance with the ordinance requiring the Superintendent of Public Buildings to report annually in the month of January the condition of the buildings belonging to the City, and the expenditures thereon. I submit the following report:

PUBLIC BUILDINGS.

RECEIPTS.

Balance undrawn Jan. 1, 1886.....	\$5,855 02	
Appropriation.....	5,000 00	
Receipts.....	3,641 73	
		<u>\$14,496 75</u>
Total expenditures.....	\$10,625 18	\$10,625 18
Receipts.....	3,641 73	
Net.....	6,983 45	
		<u>\$ 3,871 57</u>
Balance undrawn Jan. 1, 1887.....		<u>\$14,496 75</u>

REPAIRS.

The expenditures of this department have been for repairs, the principal ones being as follows :

GOVERNMENT BUILDING.

During the year there has been made an addition to the Treasurer's office, by building a one-story projection on the back side. It is of brick and is supported by iron columns and beams.

The old school committee room has been fitted up for the assessors and a door cut through into the old office.

The room formerly occupied by the Water Board has been thoroughly remodeled and fitted up for the School Committee.

The room formerly occupied by the Superintendent of Schools has been annexed to the City Engineer's office.

HUNTINGTON HALL.

The wood work has been painted, walls have been whitened, and anti-rooms whitened.

MARKET BUILDING.

The wood work of the drill hall has been painted, grained and varnished, the walls have been tinted, and gun rack fitted up for the High School Battalion.

CITY STABLE.

A new floor has been laid in main stable, and other general repairs made.

The principal expenditures were as follows :

Pay rolls.....	\$5,690 61
Superintendent's salary.....	1,500 00
Otis, Allen & Son, lumber.....	63 42
A. L. Brooks & Co., lumber and mouldings.....	177 84
Burnham & Moran, lumber.....	161 17
A. P. Bateman, ".....	30 63
Davis & Sargent, ".....	54 38
Amasa Pratt & Co., ".....	111 41
Whitney & Tibbetts, ".....	117 61
C. E. Adams, hardware.....	53 23
Bartlett & Dow, ".....	36 38
J. C. Bennett, ".....	19 06
H. B. Shattuck, ".....	24 63
Fred Taylor & Co., ".....	48 91
H. R. Barker, piping.....	275 34
Browning, Ladd & Spiers, piping.....	96 62
T. Costello & Co., piping.....	135 29
T. R. Garity & Co., plumbing and piping.....	114 75
Atkins & Harmon, use of horse and carriage.....	19 00
S. D. Butterworth.....	25 88
Badger & Holmes, turning.....	17 90
Boutwell Bros., iron beams.....	74 06
Batchelder & Dumas.....	8 00
C. B. Coburn, paints, oils, etc.....	150 47
E. W. Coburn & Co., plastering and whitening.....	519 74
O. Duckworth, glass and brushes.....	24 50
Dyer & Patterson, harness repairs.....	17 45

Fiske & Spaulding, paint.....	24 83
Philip Ginty, slater.....	9 00
Robert Goulding, slater.....	28 01
A. L. Kittredge, oils and spirits.....	44 68
Jonathan Kendall, paints.....	8 16
M. V. B. Libby, horse shoeing.....	22 10
Lowell Gas Light Co.....	55 14
W. E. Livingston, coal.....	109 45
S. G. Mack & Co., galvanized iron.....	71 84
E. N. Morrill, paper (wall).....	4 38
J. G. Peabody, sash and doors.....	9 00
Rollins & Sargent, plastering.....	108 16
Staples Bros., drain pipe and labor.....	86 33
W. H. Spalding, lead, etc.....	47 58
J. H. Sparks, doctor.....	5 00
Sweatt & Davis, cut stone.....	20 00
Sawyer Carriage Co.....	81 86
New England Telephone Co.....	36 00
H. H. Wilder & Co, tin work.....	20 62
Union Iron Foundry, castings.....	69 33
E. A. & A. T. Smith, concrete.....	5 00
Scannell & Wholey, boiler repair.....	31 89
Wm. Roberson, machine work.....	6 00
Roads and Bridges, labor.....	59 18
Water Works, pipe and water.....	28 00

SCHOOL HOUSES.

RECEIPTS.

Balance undrawn Jan. 1, 1886.....	\$11,424 98	
Appropriation for 1886	33,000 00	
Receipts	538 88	
		<u>\$44,763 86</u>
Total expenditures.....	\$42,824 87	\$42,824 87
Receipt.	538 88	
Net expenditures.....	42,285 99	
		<u>\$1,938 99</u>
Balance undrawn Jan. 1, 1887.....		\$44,763 86

The following are the principal changes in this department:

HIGH SCHOOL.

Walls have been whitened, wood work in hall painted, roof painted, fences rebuilt.

GREEN SCHOOL.

The heating arrangement has been changed from indirect to direct heating, basement concreted, inside wood work has been given a coat of varnish and shellac, and water closets refitted.

MOODY SCHOOL.

Basement has been concreted and boiler setting repaired.

HIGHLAND SCHOOL.

Walls and ceilings have been colored, basement has been concreted, water closets refitted, and a bell weighing 1500 placed in the tower for school and fire purposes.

EDSON SCHOOL.

Part of the building has been whitewashed and the blackboards repaired.

VARNUM SCHOOL.

An addition of two rooms and a private office for Principal has been made, it is of brick and is two stories high, yard has been regraded and a bank wall and fence built on south side.

COLBURN SCHOOL.

The four lower rooms and hallway have been resheathed, new windows have been put in, and the entire wood work (inside) has been painted, grained and varnished, the outside has received two coats of paint, the steam fitting in lower rooms has been renewed, and in the upper rooms the coils have been straightened up.

BUTLER SCHOOL.

Basement has been whitewashed and double windows put on two rooms.

BARTLETT SCHOOL.

Four ceilings have been newly lathed and plastered, all of the walls have been whitewashed, all of the inside

wood work has been painted and varnished, and the concrete walks repaired and enlarged. The furniture has been partly renewed.

PAWTUCKET SCHOOL.

Roof has been partly re-slatted and the outside wood work on the roof and towers repainted.

DOVER STREET.

Walls and ceiling colored.

SCHOOL STREET.

Walls and ceilings colored.

CHARLES STREET.

Painted, grained, varnished, and whitewashed.

CABOT STREET.

Painted, grained, varnished, and whitewashed.

HIGH STREET.

Whitened and colored.

POND STREET.

Water closets refitted.

WEST SIXTH

Water closets put in basement.

COMMON STREET.

Whitened and colored.

ROCK STREET.

Repainted and new fences built.

AMES STREET.

New walks concreted.

MANN SCHOOL.

Whitewashed throughout.

WEED STREET.

This is a new four-room primary, the two lower rooms are finished and the upper ones only plastered. The house is of wood with a brick foundation. The dimensions of the main building are 72 ft. 10 inches by 31 ft. 4 inches. There is a projection on front for stair and hallway 31 ft. 4 inches by 20 ft. 9 inches and a porch on each side of entrance. The finish is white-wood stained cherry. The building is heated by steam. Total cost, land and building, \$9,994 31.

The principal expenditures were as follows:

Pay rolls, janitors.....	\$14,112	45
Pay rolls, schoolhouse	4,423	46
Otis Allen & Son, lumber.....	42	68
Atkins & Harmon, board of horse.....	260	80
C. E. Adams, hardware.....	9	39
Bartlett & Dow, "	13	35
John C. Bennett, "	27	78
H. B. Shattuck, "	85	59
Fred Taylor & Co., "	71	70

Whitney & Tibbetts, lumber.....	197 56
Burnham & Moran, “.....	260 60
A. P. Bateman, “.....	25 42
A. L. Brooks, “.....	185 23
Amasa Pratt & Co., “.....	258 58
William Blake & Co., bell.....	343 35
S. D. Butterworth, plastering.....	13 00
J. W. Bennett, roofing.....	12 00
Badger Holmes, sawing and turning.....	2 70
Varnum school addition, cost.....	8,320 98
H. R. Barker, piping.....	5 15
P. W. Brown, turf and labor.....	25 25
C. B. Coburn & Co., paint.....	394 96
E. W. Coburn, mason.....	67 26
Coburn & Crosby, mason.....	438 80
Carter & Demis, labor.....	16 40
H. S. Foster, trees.....	10 00
H. W. Tarbell, “.....	18 00
Philip Ginty, slating.....	9 91
Robert Goulding, slating.....	152 31
T. R. Garity & Co., contract.....	468 00
E. W. Hooper, whitening.....	172 50
John O. Hoyt, lightning rods.....	658 59
Jonathan Kendall, paints.....	4 07
William Kittredge, lime.....	26 20
John B. Lambe, stair corners.....	8 25
C. H. Hanson & Co., teaming.....	33 20
Wm. Livingston, lime.....	21 49
W. A. Mack, iron work.....	22 50
Patrick O'Hearn, stone work.....	155 70
J. G. Peabody, sash.....	107 90
Parker & Cheney, oak posts.....	5 00
D. M. Prescott, whitening.....	126 70
Rollins & Sargent, mason.....	134 30
E. A. & A. T. Smith, concrete.....	686 46

W. H. Spalding & Co., paint.....	124 54
Staples Bros., brick.....	6 43
Sweatt & Davis, stone.....	9 00
Samuel Young, bell work.....	22 50
A. L. Kittredge, oil.....	43 79
Weed street school, cost.....	9,994 31

CITY HALL LOT.

Balance Jan. 1, 1886.....	\$6,865 34	
Receipts.....	1,968 00	
		<u>\$8,833 34</u>

Expenditures.....	\$ 625 38
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Balance Jan. 1, 1886.....	8,207 96
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Expenditures were as follows :

Appropriation for Public Buildings, labor and stock.....	\$ 223 81
“ Water Works, water and thawing pipe.....	101 92
“ Roads and Bridges, labor and stone.....	23 25
J. C. Bennett, hardware.....	1 20
Fred Taylor & Co., hardware.....	3 71
John Gilchrist, plumbing.....	10 08
T. R. Garity, piping.....	1 25
L. J. Frost, sink strainers.....	3 20
Amasa Pratt & Co., lumber.....	34 37
A. L. Brooks & Co., lumber.....	24 02
W. T. Griffin, team.....	6 75
Daniel McCarthy, team.....	50
James Leach, “.....	50
E. A. Wood, “.....	50
Maurice Hennessey, plumbing.....	37 64
Badger & Holmes, posts.....	14 60
Fred A. Fox, cleaning vaults.....	26 25
P. W. Brown, manure and cutting grass.....	83 88
W. A. Mack & Co., tin work.....	1 50
H. R. Barker, piping.....	3 61
C. B. Coburn & Co., paint and sand.....	7 80
Shea & McOsker, paper (wall).....	11 83
H. B. Barnes, “ “.....	3 21
	<u>\$ 625 38</u>

Personal property owned by the City and under my charge Jan. 1, 1887:

1000 feet cherry boards.....	90 00
1000 " pine boards.....	45 00
220 " 2 inch " plank.....	9 00
150 " 3 " " "	6 75
100 " 4 x 7-8 inch pine strips.....	4 00
900 " 7-8 inch white wood board.....	40 50
100 " northern pine.....	2 00
1000 " spruce.....	17 00
1500 " old lumber.....	18 00
30 gallons spirits turpentine.....	12 00
5 10 gallon cans.....	7 00
10 3 " "	3 00
20 1 " "	5 00
5 5 " "	3 75
5 2 " "	1 75
30 paint pots.....	3 00
3 boxes glass.....	7 50
350 feet large leather hose.....	25 00
4 stove fenders.....	12 00
4 school tables.....	16 00
2 portable blackboards.....	11 00
20 large coffins.....	80 00
13 small coffins.....	39 00
16 chairs.....	5 00
20 "	5 00
25 gallons rubber paint.....	14 00
150 lbs. Salem lead.....	10 00
6 jugs.....	3 00
4 easels.....	8 00
9 flags.....	100 00
41 pedestals.....	20 00
<i>Amount carried forward.....</i>	<i>\$623 25</i>

<i>Amount brought forward</i>	\$623 25
53 grammar chairs.....	20 00
53 " desks.....	30 00
28 pair butts.....	7 00
2 eclipse door springs.....	3 00
12 sets water closet fittings.....	75 00
5 counters.....	50 00
2 stoves.....	8 00
5 band stands.....	75 00
1 chimney cap.....	4 00
5 registers.....	4 00
30 lbs. asabastos.....	6 00
4 1-2 gallons disinfectant.....	4 50
2 bbls. ".....	14 00
2 whitewash brushes.....	3 00
1 horse.....	200 00
2 wagons.....	75 00
1 sleigh....	65 00
1 robe.....	6 00
2 blankets.....	5 00
Furniture in school houses not included in real estate....	12,000 00
	<u>\$13,277 75</u>

TOOLS.

1 gas engine, 1 saw bench, 2 grindstones, 17 augers, 4 bits, 1 set letters, 1 set numbers, 1 belt punch, 3 hand scrapers, 2 pair adze, 1 faucet reamer, 1 tool chest. 9 augers, 1 shingle ripper, 1 ladder hook, 3 glue pots, 1 painter's stage, 3 window jacks, 10 sets rope, 6 blocks, 1 pair scales, 1 grapling iron, 8 door clamps, 1 wrench, 1 jackscrew, 1 saw, 6 boring machines, 4 floor sets, 2 door sets, 44 house brackets, 1 pump, 12 ladders, 5 circular saws, 1 set scales, 12 shovels, 1 mitre box and saw, 14 drills, 1 post hole spoon, 2 barrows, 1 vise, 2 road scrapers.

REAL ESTATE.

	Sq. Ft. of Land.	Value of Land and Buildings
City Government Building.....	10,080.0	\$ 83,000 00
Huntington and Jackson Halls.....		40,000 00
Market House.....	18,740.7	60,000 00
City Scales.....		1,000 00
Butler School House, Gorham Street.....	25,592.0	50,000 00
Pawtucket School House, Mammoth Street	36,159.8	53,000 00
High School House, Ann and Kirk Streets	19,638.0	47,000 00
Bartlett School House, Clark Street.....	10,000.0	18,000 00
Edson School House, Highland Street.....	19,997.3	22,000 00
Colburn School House, Lawrence Street...	13,250.0	18,000 00
Franklin School House, Branch Street.....	20,000.0	20,000 00
Moody School House, E. Merrimack Street.	9,678.0	18,000 00
Green School House, Merrimack Street....	21,309.7	105,000 00
Mann School House, Lewis Street.....	20,794.4	18,000 00
Varnum School House, Myrtle Street.....	28,400.0	28,320 98
Highland School House, Pine Street.....	58,501.1	48,000 00
Morrill School House, Common Street.....	17,440.5	19,000 00
Sherman School House, Powell Street.....	16,239.5	5,000 00
Primary School House, Eliot Street.....	5,442.9	10,000 00
Primary School House, Church Street.....	4,750.0	6,500 00
Primary School House, High and Pond Streets.....	9,945.0	5,000 00
Primary School House, High Street.....		9,000 00
Primary School House, Carter Street.....	10,525.4	5,000 00
Primary School House, Charles Street.....	5,432.4	3,500 00
Primary School House, Fayette Street.....		3,500 00
Primary School House, Rock Street.....	5,202.0	3,000 00

REAL ESTATE.—Continued.

	Sq. Ft. of Land	Value of Land and Buildings.
Primary School House, Cabot Street.....	5,250.0	\$3,500 00
Primary School House, W. Sixth Street....	12,787.5	7,000 00
Primary School House, River Street.....	10,232.0	5,000 00
Primary School House, Ames Street.....	8,295.6	7,000 00
Primary School House, Dover Street.....	18,521.5	6,500 00
Primary School House, Tenth Street.....	10,730.0	7,200 00
Primary School House, Cheever Street, Lease for 99 years		3,250 00
Primary School House, London Street....	10,065.0	4,000 00
Primary School House, Chapel Street....	6,316.5	4,500 00
Primary School House, Chapel Street } Primary School House, Central Street }	13,693.0	12,000 00
Primary School House, Howard Street....	7,043 0	5,000 00
Primary School House, Agawam Street....	13,664.0	7,200 00
Primary School House, Grand Street.....	4,155.0	5,500 00
Primary School House, Kirk Street.....	7,840.0	20,000 00
Primary School House, Worthen Street....	11,883.6	25,000 00
Primary School House, Lyon Street.....	12,357.1	20,000 00
Primary School House, Powell Street.....		7,000 00
Primary School House, Varnum Avenue....		1,000 00
Primary School House, Mammoth Street...		4,500 00
Primary School House, Middlesex Village..		3,000 00
Primary School House, Weed Street.....	19,883.0	9,994 31
Hose Carriage House, Fayette Street.....		4,000 00
Hose Carriage House, Central Street.....		4,000 00
Hose Carriage House, Lincoln Street....		500 00
Protective House, Warren Street.....		3,500 00
Lighting Dept. House, Fletcher Street....		3,500 00
Engine House and Ward Room, Fourth Street	7,480.0	13,000 00
Engine House and Ward Room, Branch Street	8,805.0	18,000 00

REAL ESTATE.—Continued.

	Sq. Ft. of Land.	Value of land and Buildings.
Engine House and Ward Room, Fletcher Street		\$14,000 00
Engine House and Ward Room, Gorham Street	5,255.9	12,000 00
Chemical House, Merrimack Street.....	3,420 0	4,500 00
Engine, Hook and Ladder, Carpenter Shop, and Armories.....	9,025.0	34,500 00
Land and Buildings on Cross, Fletcher, and Lagrange Streets.....	154,633.4	55,000 00
Public Landing rear of Market House, ex- clusive of land set off by Locks and Canals Co.....	4,547.0	1,200 00
Land on Chelmsford Street.....	130,680.0	1,600 00
Land on Fletcher and Whiting Streets.....		14,000 00
Land on Middle Street.....	7,306.0	14,000 00
Land on Tenth Street.....	217,800.0	5,000 00
Land on First Street.....		190 00
City Hall Building Lot.....	60,924.16	100,000 00
City Farms and Buildings.....		95,000 00
Wilson Park.....	3,220.0	1,600 00
Mt. Vernon Park.....		2,200 00
Park Garden.....	1.77 acres	10,000 00
North Common.....	11.29 "	112,900 00
South Common.....	22.48 "	224,800 00
		<hr/>
		\$1,589,790 00
Weed Street School.....		9,994 31
Varnum School.....		8,320 98
		<hr/>
		\$1,608,105 29



<i>Amount brought forward</i>	\$623 25
53 grammar chairs.....	20 00
53 " desks.....	30 00
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2 eclipse door springs.....	3 00
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Furniture in school houses not included in real estate....	12,000 00
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TOOLS.

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		<hr/>
		\$1,589,790 00
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		<hr/>
		\$1,608,105 29



ANNUAL REPORT
OF THE
SEALER OF WEIGHTS AND MEASURES
OF THE
CITY OF LOWELL,
FOR THE YEAR 1886.



LOWELL, MASS. :
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, April 5, 1887.

Read and ordered on file.

DAVID W. O'BRIEN,

City Clerk.

REPORT.

SEALER OF WEIGHTS AND MEASURES, }
 OFFICE, No. 57 MARKET ST., }
 LOWELL, MASS., March 14, 1887. }

To the Honorable Mayor and Board of Aldermen :

Gentlemen:—From the 13 of March, 1886, to the above date, I have collected for fees: \$178.81, less trucking, \$10.08, balance \$168.73, which I paid to the City Treasurer. I have tested weights, measures and balances as follows :

OUTSIDE THE SEALER'S OFFICE.

Weights,	.	.	2,008	of these	143	were	light	and	2	heavier	than	standard
Counter balances,	.	256	"	"	10	condemned	weighed	light	of	standard		
Platform	"	.	158	"	"	12	"	"	"	"	"	"
Spring	"	.	36	"	"	18	"	"	"	"	"	"
Butchers	"	.	39	"	"	2	"	"	"	"	"	"
Coal and track balances	.	33	"	"	14*	"	"	1	heavier	than	"	"
Weighing beams	.	2	"	"	1	"	"	lighter	"	"	"	"
Wet measures	.	28	"	"	5	"	"	smaller	than	"	"	"

*The track and coal scales that weighed over 5000 lbs. and were condemned : were 6 coal scales giving light weight, 1 Public weigher's Scale giving weight heavier than standard, 7 belonged to the differ-

ent Corporations, and gave light weight. They have all been repaired, made to conform to the standard and sealed. All the spring balances are used by butchers ; they are fraudulent devices for weighing and should be prohibited by ordinance from being used within the city limits.

TESTED AND SEALED AT THE SEALER'S OFFICE.

Weights	.	588	of these 31 were condemned	weighed lighter than standard				
Counter balances	85	"	"	2	"	"	"	"
Platform	"	. 51	"	5	"	"	"	"
Spring	"	. 11	"	4	"	"	"	"
Butchers	"	. 3	"	1	was	"	"	"
Wet Measures	. 123	"	"	9	were		smaller than standard	
Dry Measures	. 13	"	"	9	was condemned		"	"
Steelyards	. 2	"	"	1	"	"	"	"
Weighing beams	2	"	"	0	"	"	"	"

Whole number of weights tested.....	2,596
Whole number of balances of all kinds.....	678
Whole number measures, wet and dry.....	164

I have charged no fees for weights, measures or balances brought into the Sealer's office, and none for weights, measures and balances condemned and tested outside the Sealer's office.

On assuming the duties of the office, I was surprised that the Second City of the Commonwealth did not possess a better set of balances, for the use of the Sealer of Weights and Measures. The balances were old and rusted and not fit for the accurate testing and adjusting of weights.

When I told His Honor the Mayor that they were worthless, he, with Aldermen Puffer and Penniman, of the Committee on Weights and Measures, gave orders to purchase a new set, which were made by Fairbanks & Co., of St. Johnsbury, Vermont, and with proper care can be used for years.

The City should have a double set of weights for the use of the Sealer of Weights and Measures. For where there is only a single

set, and it always in use, the weights get light from wear and there is no chance for time to have them repaired and made to conform to the standard.

I would commend to your Honorable Body the need of a public office, in some of the City's buildings, for the Sealer of Weights and Measures. Where business men could come, and where weights belonging to the City could be kept, and not carried on the appointment of every new Sealer to their homes or places of business.

I would call the attention of your Honorable Body to the fact that there are no ordinances to enforce the collection of transportation, and that in your wisdom you will pass such ordinances, as without them I cannot collect transportation and the city will have to pay it.

Thanking his Honor the Mayor, and Aldermen Puffer and Penniman, of the committee on Weights and Measures, for their courteous manners and willingness to supply me with correct instruments.

Respectfully Submitted,

JAMES T. MURRAY,

City Sealer.



ANNUAL REPORT

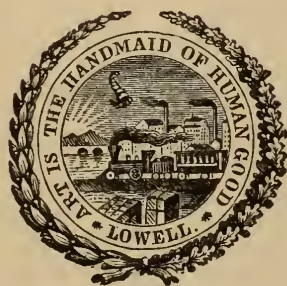
OF THE

SUPERINTENDENT OF STREET LAMPS

OF THE

CITY OF LOWELL

FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 17, 1887.

Read and ordered on file.

DAVID W. O'BRIEN,

City Clerk.

REPORT.

LOWELL, January, 1887.

The Mayor and Board of Aldermen.

GENTLEMEN:—Herein is submitted the Annual Report of the Superintendent of Street Lights for the year ending December 31st, 1886.

The working force under the direction of the Chief of the Fire Department consists of a foreman, six men and twenty-nine boys; the men (with one exception) have, in addition to their regular duties of cleaning the lamps, set and fitted up sixty-six gas and forty-seven kerosene posts, and have changed location and reset fifty posts the past year; the boys light and the police put out, except thirty-seven gas lights which are on the outskirts, which are put out by a man employed for that purpose by the Lighting Department. The foreman and captain of police keep the time, size, burner, etc.

The kerosene lamps are contracted for with the Wheeler Reflector Co. of Boston, at $5\frac{7}{8}$ cents per night, they to furnish reflector, lamp, oil, and furnish glass, after once broken.

There are at present seventy-five electric street lights, paid for by the city at 60 cents per light.

This department has at present 1286 lights: 876 gas, 335 kerosene (the kerosene substituted for gasoline during the past summer), and seventy-five electric lights. There have been five electric lights added during the year; there have been seventy-three gas lights added during the year, sixty-six of which have been new settings, the other seven have been placed back on the old posts displaced by the electric. The size of burners vary from four feet to eighteen feet, according to locality.

There have been 47 kerosene lamps added during the year, and several have been taken out and replaced by gas, making up to date 335 in number.

There are about 140 lamp posts piped and ready for use, if wanted, that were discontinued on account of electric lights.

The expense of lighting the government building, ward rooms, armories, Huntington and Jackson Halls, and the gas consumed by the thirty-eight corporation lights, are charged to this department.

The locations of gas lights added during the year are as follows :

NEW SETTINGS.

GAS LIGHTS ADDED DURING THE YEAR 1886.

Gorham street,	3 in number.
Fairmount street,	3 "
First street (Centralville),	3 "
Belmont avenue,	3 "
Walker street,	2 "
Concord street,	2 "
Huntington street,	2 "
West Pine street,	2 "
Liberty street,	2 "
South Loring street,	2 "
Dutton street,	2 "
Tanner street,	2 "
Stevens street,	2 "
Leverett street,	2 "
Brooks street,	2 "
Shaw street,	2 "
Fayette street,	2 "
School street,	1 "
New School street,	1 "
Gold street,	1 "
Grand street,	1 "
Mansur street,	1 "
Fourth avenue,	1 "
Whiting street,	1 "
Chestnut street,	1 "
Westford street,	1 "
High street,	1 "
East Pine street,	1 "
East Merrimack street,	1 "

Wilder street,	1 in number.
South street,	1 "
Third street (Centralville),	1 "
Hastings street,	1 "
Everett street,	1 "
Clay street,	1 "
Pawtucket street,	1 "
Second street (Centralville),	1 "
Royal street,	1 "
River street,	1 "
Washington street,	1 "
Cheever street,	1 "
Worthen street,	1 "
Robbins street,	1 "
Smith street,	1 "
Lawrence street,	1 "
Total	<u>66</u>

LANTERNS AND FIXINGS ON OLD POSTS, AS FOLLOWS:

East Merrimack street,	1 in number.
Corner of South and Highland streets,	1 "
Corner of Ann and French streets,	1 "
Branch street,	1 "
Pawtucket Bridge,	<u>3</u> "
Total,	7

KEROSENE LIGHTS ADDED DURING THE YEAR 1886.

West Pine street,	8 in number.
Parker street,	6 "
Plain street,	3 "
Gorham street,	2 "
Riverside street,	2 "
Fulton street,	2 "
South Whipple street,	1 "
Swede street,	1 "
Washington street,	1 "
Joiners court,	1 "
Olive street,	1 "
Abbott street,	1 "

REPORT OF THE

Back of Crowell & Harrison,	1 in number.
Maple street,	1 “
Church street court,	1 “
Cosgrove street,	1 “
First street (Centralville),	1 “
West street,	1 “
Westford street,	1 “
Opp. Parker street,	1 “
Methuen street,	2 “
Humphrey street,	1 “
Second avenue,	1 “
Third avenue,	1 “
Quimby street,	1 “
Main street,	1 “
Clinton court,	1 “
East Merrimack street,	1 “
Stackpole street,	1 “
Court street,	1 “
Total,	<u>48</u>

Several have been taken out and replaced by gas posts, making a total of kerosene lights up to date about 335.

ELECTRIC LIGHTS.

There have been added during the year five in number, making a total of seventy five electric.

Whole number of lights up to date.

Gas.....	876
Kerosene.....	335
Electric	<u>75</u>

Grand total.....1286

During the past summer all the lamp posts and lanterns in the city were painted, which necessitated the employing of two painters for that purpose for a few months.

The location of a great many lights has been changed during the year.

PROPERTY OWNED BY THE CITY.

SCHEDULE OF PROPERTY UNDER THE CHARGE OF THOS. J. FARRELL,
SUPERINTENDENT OF STREET LAMPS, JANUARY 1887.

Oil house, 876 gas posts and lanterns, 140 posts without lanterns, 30 torches, 100 old fluid lamps, 1 horse, 2 wagons, 1 pung and 1 sleigh, 3 harnesses, 2 blankets, 2 robes, 1 stove and pipe, 1 copper boiler, 2 copper tanks, coal hod, bath tub, $\frac{1}{2}$ ton hay, 10 bushels of oats, 40 gallons of alcohol, 20 gallons wood alcohol, 150 gas cocks, 5 gross matches, 15 old globe frames, $\frac{1}{2}$ doz. globes, 19 new lanterns, 50 ft. $\frac{3}{4}$ hose, 1 oil tester, 1 air pump, piping tools and bench and vise, desk, table, 5 chairs, 125 tin tops, 1 Johnson pump, match box, 12 ladders, 335 kerosene lamp posts and lanterns, 24 $\frac{3}{4}$ elbows, 1 ton coal, 2 diamond glass cutters, 6 hand wrenches, waste, etc.

The value of the above is \$26,000.

8 REPORT OF THE SUPT. OF STREET LAMPS.

LIGHTING.

Jan. 1, 1886.

Appropriation	\$45,000.00	
Receipts and transfers	32.50	
	<hr/>	\$45,032.50

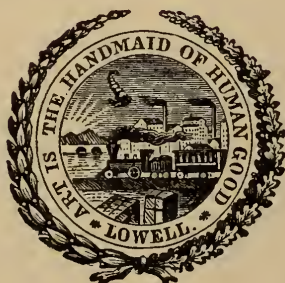
EXPENDITURES.

Pay roll	\$ 7,037.62	
Lowell Gas Light Co.	12,231.05	
Globe Gas Light Co.	1,339.48	
Wheeler Reflector Co.	4,055.87	
Electric Light Co.	17,653.49	
Posts	571.38	
Glass, paint, oil, etc.	268.25	
Globes	212.83	
Pipe and Fittings	262.60	
Coal	38.85	
Lanterns and repairing	353.10	
Water	20.00	
Horse shoeing, repairing, etc	74.00	
Snatches	20.00	
Hay and grain	122.30	
Printing and stationery	26.28	
Harness and repairs	28.22	
	<hr/>	\$44,315.32
		<hr/>
Balance undrawn		\$717.18

Respectfully submitted,

T. J. FARRELL,
Supt. Lighting.

ANNUAL REPORT
OF THE
SUPERINTENDENT OF CITY SCALES
AND MEASURER OF WOOD AND BARK,
OF THE
CITY OF LOWELL
FOR THE YEAR 1886.



LOWELL, MASS.:
CAMPBELL & HANSCOM, PRINTERS.
1887.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, January 7, 1887.

Accepted and placed on file.

SAMUEL M. CHASE, *City Clerk.*

REPORT.

To the Honorable Mayor and Board of Aldermen:—

In compliance with an Ordinance requiring the Superintendent of City Scales to report annually, I have the honor to submit the following report for the year 1886 :—

I have, during the year, weighed—

						Tons.	Pounds.
1468	loads of	Hay,	.	.	.	1386	75
325	"	Straw,	.	.	.	254	1597
124	"	Coal,	.	.	.	264	1950
38	"	Iron,	.	.	.	33	1937
27	"	Paper,	.	.	.	13	315
51	"	Hair,	.	.	.	81	795
13	"	Grain,	.	.	.	19	1320
13	"	Carrots,	.	.	.	9	415
9	"	Squash,	.	.	.	17	* 1830
5	"	Logwood,	.	.	.	18	1420
3	"	Bagging,	.	.	.	5	415
10	"	Bones,	.	.	.	6	820
3	"	Oil,	.	.	.	2	1395
2	"	Leather,	.	.	.	4	345
2	"	Boilers,	.	.	.	7	740
1	"	Liquid,	.	.	.		1510
1	"	Card teeth,	.	.	.		1310
1	"	Dressed hog,	.	.	.		510
1	"	Provisions,	.	.	.		465
1	"	Excelsior,	.	.	.		315

					Tons.	Pounds.
1	load	of	Brass,	. . . . .		270
235	"		Horses,	. . . . .		—
5	"		Pairs of oxen,	. . . . .		—
11	"		Wagons,	. . . . .		—
Received for fees for weighing						\$450.19

R. J. NOONAN,
Superintendent of City Scales.

ANNUAL REPORT

Of the Measurer of Wood and Bark for the year 1886.

I have, during the year, measured—

					Cords.	Feet.
3476	loads	of	Wood,	. . . . .	4132	3½
306	"		Manure,	. . . . .	235	4½
9	"		Waste,	. . . . .	6	5¾
4	"		Wagons,	. . . . .		—

Received for fees for measuring, \$190.10

R. J. NOONAN, *Measurer.*

CITY DOCUMENT, 1886.

SALARIES OF THE OFFICERS
OF THE
CITY OF LOWELL.

FOR THE YEAR 1887.



LOWELL, MASS. :
CITIZEN NEWSPAPER COMPANY, 35 MERRIMACK STREET.
1886.

CITY OF LOWELL.

In the year eighteen hundred and eighty-six.

RESOLUTION

ESTABLISHING THE SALARIES OF OFFICERS OF THE CITY OF
LOWELL FOR THE YEAR 1887.

*RESOLVED by the Board of Aldermen and
Common Council of the City of Lowell, in
City Council assembled, as follows:—*

The salaries of the several city officers for that portion of the year beginning on the first of January, and ending on the thirty-first day of December, one thousand eight hundred and eighty-seven, shall be at the rate herein mentioned; to be paid monthly, unless herein otherwise ordered.

Section 1. The salary of the MAYOR shall ^{Mayor.} be at the rate of two thousand dollars per annum.

City Clerk. *Sect. 2.* The salary of the CITY CLERK shall be at the rate of eighteen hundred dollars per annum.

City Treasurer. *Sect. 3.* The salary of the CITY TREASURER shall be at the rate of twenty-five hundred dollars per annum, for performing the duties of City Treasurer and Collector of Taxes. He shall annually give a bond in the sum of fifty thousand dollars, with good and sufficient sureties, satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and to account for all sums of money received in the sales of Water Bonds, and the collection of Water Rates, and in the capacity of City Treasurer and Collector of Taxes.

Auditor of Accounts. *Sect. 4.* The salary of the AUDITOR OF ACCOUNTS shall be at the rate of fifteen hundred and fifty dollars per annum.

City Solicitor. *Sect. 5.* The salary of the CITY SOLICITOR shall be at the rate of seventeen hundred dollars per annum, which shall be in full for all services rendered the city.

Civil Engineer. *Sect. 6.* The salary of the CIVIL ENGINEER shall be at the rate of twenty-five hundred dollars per annum, which shall be in full for

services as Civil Engineer and Engineer of the Water Board; and he shall devote his whole time to the service of the city. He shall be allowed such assistance as the Chairman of the Joint Standing Committee on Streets, the Chairman of the Standing Committee on Sewers, and the President of the Lowell Water Board may determine.

Sect. 7. The salary of the CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS shall be at the rate of five hundred dollars per annum, which shall be in full for all services rendered the city, including his duties as a member of the Board of Health.

City Physi-
cian and
Superin-
tendent of
Burials.

Sect. 8. The salary of the LIBRARIAN OF THE CITY LIBRARY shall be at the rate of fifteen hundred dollars per annum.

Librarian
of the City
Library.

Sect. 9. The salary of the CLERK OF THE COMMON COUNCIL shall be at the rate of two hundred and fifty dollars per annum.

Clerk of
Common
Council.

Sect. 10. The salary of the CITY MESSENGER shall be at the rate of one thousand dollars per annum.

City Mes-
senger.

Sect. 11. The salary of the MEASURER OF MEASURE* OF WOOD AND BARK.

Measure*
of Wood
and Bark.

WOOD AND BARK, in the rear of the Market House building, shall be at the rate of six hundred dollars per annum, and he shall account for all fees received by him in his official capacity; shall pay the same into the treasury monthly, and at the same time make a report of the amount so paid to the Auditor of Accounts; and also shall be required to devote daily to his duty such time as the Mayor may direct. The salary of any additional measurers of wood and bark shall be at such rate as the Mayor and Aldermen may, from time to time, determine; *provided*, that the same shall not exceed the amount of fees received.

President
of the Low-
ell Water
Board.

Sect. 12. The salary of the PRESIDENT OF THE LOWELL WATER BOARD shall be at the rate of four hundred dollars per annum.

Sect. 13. The Joint Committee on Accounts and the Joint Committee on Finance may provide such clerical assistance in the offices of the City Clerk, City Treasurer, Auditor of Accounts, and Assessors of Taxes, as may be necessary, the expense thereof to be charged to the Reserved Fund. The Directors of the City Library may provide such assistance to the

Librarian of the City Library as may be necessary, the expense thereof to be charged to the Appropriation for Library. The Joint Committee on Military Affairs may provide such clerical assistance as may be necessary in the distribution of State Aid; the expense thereof to be charged to the Reserved Fund.

POLICE.

Sect. 14. The salary of the CHIEF OF POLICE shall be at the rate of eighteen hundred dollars per annum. Chief of Police.

Sect. 15. The salaries of the DEPUTY CHIEFS shall be at the rate of fourteen hundred dollars per annum each, payable fortnightly. Deputy Chiefs.

The salaries of the INSPECTORS OF POLICE, detailed for detective duty, shall be at the rate of twelve hundred dollars per annum each, payable fortnightly.

The compensation of the SERGEANTS OF POLICE, and INSPECTORS detailed for liquor duty, shall be at the rate of three dollars per day each, payable fortnightly.

Night
Police
Officers.

The compensation of DAY and NIGHT POLICE OFFICERS shall be at the rate of two dollars and seventy-five cents per day each, payable fortnightly.

Sect. 16. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same to the City Treasurer; and said officer shall, at the same time, report to the Auditor of Accounts the amount thus paid; *provided, however*, that said officers need not account for any fees for travel and attendance before the Supreme Judicial and Superior Courts as witnesses.

The Stand-
ing Justice
of the
Police
Court of
Lowell.

Sect. 17. THE STANDING JUSTICE OF THE POLICE COURT OF LOWELL shall be paid at the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-eighth Chapter of the Public Statutes, or any subsequent Act or Ordinance concerning truant children and absentees from school.

SUPERINTENDENTS AND INSPECTORS.

Sect. 18. The salary of the SUPERINTENDENT Superintendent of Streets. OF STREETS shall be at the rate of eighteen hundred dollars per annum. The city shall furnish a horse for his use.

Sect. 19. The salary of the SUPERINTENDENT Superintendent of Public Buildings. OF PUBLIC BUILDINGS shall be at the rate of fifteen hundred dollars per annum. The city shall furnish a horse and conveyance for the use of himself and the men under his charge.

Sect. 20. The salary of the SUPERINTENDENT Superintendent of Water Works. OF THE WATER WORKS shall be at the rate of sixteen hundred dollars per annum; and the city shall furnish a horse and carriage for his use.

Sect. 21. The salary of the SUPERINTENDENT Superintendent of City Scales. OF CITY SCALES shall be at the rate of two hundred dollars per annum; and he shall pay into the City Treasury all moneys received for fees.

The salary of any additional weigher of hay and other articles shall be at such rate as the Mayor and Aldermen may, from time

to time, determine; *provided*, that the same shall not exceed the amount of fees received.

Fish
Warden.

Sect. 22. The salary of the FISH WARDEN shall be at the rate of forty dollars per annum; and the salary of POUND-KEEPER shall be at the at the rate of twenty-five dollars per annum.

Pound-
Keeper.

Sealer of
Weights
and
Measures.

Sect. 23. The salary of the SEALER OF WEIGHTS AND MEASURES shall be at the rate of three hundred dollars per annum and all fees received by him shall be paid into the city Treasury monthly, and he shall, at the same time, report to the Auditor of Accounts the amount of such payment.

Secretary
of the
Board of
Overseers
of the Poor.

Sect. 24. The salary of the SECRETARY OF THE BOARD OF OVERSEERS OF THE POOR shall be at the rate of one thousand dollars per annum.

Board of
Health.

Sect. 25. The salary of the appointed members of the BOARD OF HEALTH shall be at the rate of five hundred dollars per annum each.

REGISTRARS OF VOTERS.

Registrars
of Voters.

Sect. 26. The salary of the appointed REGISTRARS OF VOTERS shall be at the rate

of four hundred dollars per annum each. They shall receive their pay in equal amounts, in the months of October, November, and December.

ASSESSORS' DEPARTMENT.

Sect. 27. The salary of the CHAIRMAN Chairman of Board of Assessors. OF THE BOARD OF ASSESSORS shall be eleven hundred dollars per annum; and the salary of the SECRETARY OF THE BOARD OF ASSES- Secretary and other Assessors. SORS shall be ten hundred and fifty dollars per annum, and he shall keep a record of all abatements and changes in tax bills; and the salary of each of the other Assessors shall be ten hundred dollars per annum; and the said Assessors shall make out and distribute the tax bills. The Assessors shall devote their whole time to the service of the city. They shall jointly make a valuation of the real estate in the city, and enter the same in a book to be kept for mutual reference, the same to be done before entering on a subdivision of their duties of assessing in May.

FIRE DEPARTMENT.

Sect. 28. The salaries of the several members of the Fire Department for the year beginning April 1st, one thousand eight hundred and eighty-seven, shall be as herein mentioned, to be paid semi-annually, unless otherwise ordered.

Chief
Engineer.

The salary of the CHIEF ENGINEER shall be at the rate of fifteen hundred dollars per annum, payable monthly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

First
Assistant
Engineer.

The salary of the FIRST ASSISTANT ENGINEER shall be at the rate of two hundred and twenty-five dollars; and of the other Assistant Engineers at the rate of two hundred dollars each, per annum.

Secretary
of the
Board of
Engineers.

The SECRETARY OF THE BOARD OF ENGINEERS, who shall be a member of the Board, shall receive twenty-five dollars additional, which shall be in full payment for all the services which may be required of him by the

Mayor and Aldermen, the Chief Engineer, and the Board of Engineers.

The FOREMEN of the respective Hose, Hook Foremen. and Ladder, and Steam Fire Engine Companies shall be paid at the rate of two hundred dollars each, per annum.

DRIVERS of Steamers, Hook and Ladder, Drivers. Horse Hose Carriages, and Protective Wagon, who shall perform all the duties of Stewards, and all other permanent men shall be paid two dollars and fifty cents per day, payable fortnightly.

ENGINEERS OF STEAM FIRE ENGINES shall Engineers of Steam Fire Engines. be paid at the rate of two hundred and twenty-five dollars per annum.

ASSISTANT ENGINEERS OF STEAM FIRE EN- Assistant Engineers of Steam Fire Engines. GINES shall be paid at the rate of one hundred and seventy-five dollars per annum.

All other MEMBERS of Steam Fire Engine, Members. Hose, and Hook and Ladder Companies, shall be paid at the rate of one hundred and fifty dollars per annum each, with the exception of Pawtucketville and Ayer's City Hose Companies, the pay of whose members shall be twenty-five dollars per annum each.

Sect. 29. Whenever any person in the employment of the city shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the city.

